

PERSONAL INFORMATION

Name: Dosun Shin
 Rank: Associate Professor
 Program: Industrial Design
 School: The Design School
 College: Herberger Institute for Design and the Arts
 University: Arizona State University
 Address: Main Campus PO Box 872105, Tempe, AZ 85287
 Phone: 480) 965-7816
 E-mail: dosun.shin@asu.edu

EDUCATION

Aug. 2001 – Aug. 2003 Master of Fine Art (MFA), Industrial Design
 University of Illinois at Urbana-Champaign, IL, USA

Mar. 1992 – Feb. 1999 Bachelor of Fine Art (BFA), Industrial Design
 Keimyung University, South Korea
 (Apr. 1993 – Oct. 1995: Military service in Republic of Korea Air Force)

POSITIONS HELD

June 2010 – Present **ACADEMIC POSITIONS:**
 Tenured Associate Professor
 Industrial Design, The Design School, Herberger Institute for Design
 and the Arts, Arizona State University, Tempe, AZ, USA

Aug. 2018 – present Affiliate Faculty of ASU's Biomimicry Center, Arizona State University

Aug. 2016 – present Barrett Honors Advisor and Faculty, Arizona State University

Aug. 2014 – Present Industrial Design Program Internship Coordinator
 The Design School, Herberger Institute for Design and the Arts,
 Arizona State University, Tempe, AZ, USA

Aug. 2014 – May 2018 Head of Industrial Design Program
 The Design School, Herberger Institute for Design and the Arts,
 Arizona State University, Tempe, AZ, USA

Aug. 2011 – May 2012 Industrial Design Program Coordinator
 The Design School, Herberger Institute for Design and the Arts,
 Arizona State University, Tempe, AZ, USA

Aug. 2004 – May 2010 Assistant Professor
 Industrial Design, School of Design Innovation, Herberger Institute for
 Design and the Arts, Arizona State University, Tempe, AZ, USA

July 2014 & July 2007 Invited Instructor
 Human Resource Development Institute (running by South Korea
 government), Invited by University of Technology and Education,
 Industrial Design, South Korea

- Fall 2002 & Spring 2003 Instructor
Industrial Design, Arts and Design School, University of Illinois at Urbana-Champaign, IL, USA
Teaching ID341 – Computer Applications in Design
- Feb. 2004 – Jan. 2006 **PROFESSIONAL POSITIONS:**
Industrial Designer
Fire Stone Home Product, MN, USA
Duties: Leading design for outdoor products that include gas & electric grills, fire pits, grill-islands, fireplaces, gas lamps.
- Feb. 2004 – July 2004 Industrial Designer
Insight Product Development, Chicago, IL, USA
Duties: Responsible for design research, concept generation and development, sketches, computer modeling and rendering, 3D mock-up, design consultation to clients and design presentations.
- Aug. 2003 – Feb. 2004 Industrial Designer
HON Industries, IA, USA & Hearth & Home (The Division of Outdoor Product of HON), MN, USA
Duties: Responsible for designing the air vent cap for Heatilator indoor fireplaces and an outdoor gas grill (Patio Gourmet Elite/ HEAT-N-GLO)
- Sep. 2002 – Aug. 2003 Part-time Industrial Designer
HON Tech Center, IA, USA
Duties: Responsible for designing outdoor gas grill (Patio Gourmet Elite/ HEAT-N-GLO) for next generation, concept generation and development, sketches, CAD modeling, virtual rendering and design presentations.
- June. 2002 Industrial Designer
RKS Design, CA, USA
Duties: Participated 2002 RKS Design Annual Student Workshop “Life in The Fast Lane”, 7 Industrial Design students in U.S. were selected and designed eye protection goggles for mountain bikers (Vandal & Dobro) with the RKS Design team.
- June 2002 – Aug. 2002 Industrial Design Intern
HON Industries, IA, USA, summer full-time intern
Duties: Responsible for designing a low cost mass production task chair, “Good-Better-Best” design, collaborated with the Dept. of Mechanical Engineering, University of Illinois, Urbana-Champaign.
- Dec. 1998 – Dec. 2000 Industrial Designer
EN.S Design Center, South Korea
Duties: Responsible for design consulting in the area of consumer products, electronics, and medical equipment.

RESEARCH / CREATIVE ACTIVITIES

Publications

Design Awards & Recognitions

Patents

Conference Presentations

Scholarly Invited Lectures

Grants and Sponsored Projects

Professional Design Practice

PEER-REVIEWED RESEARCH PUBLICATIONS

CONFERENCE PROCEEDINGS

- July 2020
Shin, D., Buman, M., Turaga, P., Kidane, A., & Ingalls, T., New Investment of Innovative Design of The Future Workstation Advancing Sedentary Work Behavior, Proceedings of the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications (IHiet 2020), August 27-29, 2020, Paris, France, AISC vol 1253, pp 371–376
- July 2020
Shin, D., Assistive Device Design for Animal Needs in Human Society, Proceedings of the AHFE 2020 Virtual Conferences on Usability and User Experience, Human Factors and Assistive Technology, Human Factors and Wearable Technologies, and Virtual Environments and Game Design, July 16-20, 2020, USA, Advances in Intelligent Systems and Computing, vol 1217, pp 794-799, Springer, Cham
- July 2020
Shin, D., Buman, M., Turaga, P., Kidane, A., & Ingalls, T., Design of the Future Workstation: Enhancing Health and Wellbeing on the Job, In Proceedings of the AHFE 2020 Virtual Conferences on Software and Systems Engineering, and Artificial Intelligence and Social Computing, July 16-20, 2020, USA, Advances in Intelligent Systems and Computing, vol 1213, pp 407-413, Springer, Cham
- Sep. 2019
Shin, D., Assistive Mobility Device Design for Handicapped Dog, In Proceedings of 2019 American Orthotic and Prosthetic Association (AOPA) National Assembly, Sep. 25-28, 2019, San Diego, CA, USA
- Sep. 2019
Shin, D., "DOGGY DOLLY": Design Exploration of Customized Mobility Device for a Handicapped Dog, In Proceedings of the 21st International Conference on Engineering and Product Design Education (E&PDE 2019), pp 305-310, Sep. 12-13, 2019, University of Strathclyde, Glasgow, UK
DOI number: <https://doi.org/10.35199/epde2019.1>
ISBN: 978-1-912254-05-7
- July 2018
Shin, D., A Comparative Study of Product Usability and Ergonomic Assessment of Server Lifts, In Proceedings of the 9th International Conferences on Usability & User Experience and Assistive Technology, pp 99-110, vol. 794, Springer Verlag, Cham, July 2018, Orlando, Florida, USA
Print ISBN: 978-3-319-94946-8, Online ISBN: 978-3-319-94947-5
DOI: https://doi.org/10.1007/978-3-319-94947-5_10
- July 2017
Shin, D. & Chung, S., Emotional Values of Ceramic Material for Product Design,

- In Proceedings of the AHFE 2017 International Conference on Affective and Pleasurable Design, pp 97-104, vol. 585, Springer Verlag, Cham, July, 2017, Los Angeles, California, USA
 Print ISBN: 978-331-9604947, Online ISBN: 978-3-319-60495-4
 DOI: https://doi.org/10.1007/978-3-319-60495-4_11
- July 2016
 Shin, D. & Huang, Y., The Awareness of Human's Sedentary Behavior in the Workplace and Product Design Guidelines,
 In Proceedings of the AHFE 2016 International Conference on Affective and Pleasurable Design, pp 349-360, vol. 483, Springer Verlag, Cham, July, 2016, Florida, USA
 Print ISBN 978-3-319-41660-1, Online ISBN 978-3-319-41661-8
 DOI: https://doi.org/10.1007/978-3-319-41661-8_34
- Sep. 2016
 Shin, D. & Chung, S. Tactile Digital: An Exploration of Merging Ceramic Art and Industrial Design,
 In Proceedings of the 18th Engineering & Product Design Education (E&PDE) Conference, pp 688-694, Sep, Aalborg University, Denmark
- July 2015
 Shin, D. & Wang, Z, The Experimentation of Matrix for Product Emotion, In Proceedings of 6th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences, July 2015, Las Vegas, USA
- May 2014
 Shin, D. & Wang, Z. Make Product Alive: Applying Emotional Design in Health Care Products,
 In Proceedings of The 1st Asian Conference on Ergonomics and Design (ACED 2014), page 179-184, May 2014, Seoul, South Korea
- Aug. 2013
 Shin, D., Crespo, N., & Buman, M. Design And Health Promotion Combating Sedentary Behavior,
 In Proceedings of IDSA (Industrial Designers Society of America) International Conference and Education Symposium, usb flash drive, Chicago, USA
- Sep. 2013
 Valamanesh, R., Shin, D, Tangible Ideation: How Digital Fabrication Acts As A Catalyst In The Early Steps Of Product Development,
 In Proceedings of the 15th International Conference Engineering & Product Design Education (E&PDE), pp 635-640, Dublin, Ireland
 ISBN: 978-1-904670-42-1
<https://www.designsociety.org/publication/34782/Tangible+ideation%3A+how+digital+fabrication+acts+as+a+catalyst+in+the+early+steps+of+product+development>
- Aug. 2012
 Valamanesh, R., Shin, D, Design Inspired By Digital Fabrication,
 In Proceedings of IDSA (Industrial Designers Society of America) International Conference and Education Symposium, Boston, USA
<https://www.idsa.org/sites/default/files/Valamanesh.pdf>

- Jan. 2012 Kussalanant, C., Takamura, J., Shin, D., & Burlison, W., Developing Interactive And Emergency Response Devices For People With Disabilities And Their Canine Assistants,
In Proceedings of The 4th International Conference on Applied Human Factors and Ergonomics, Advances in Human Aspects of Healthcare, pp 721-732, San Francisco, CRC Press. <https://doi.org/10.1201/b12318>
- July 2010 Nurudeen, S., Shin, D., Herring, D., and Heinrichs, K. The Measure of Success: Quantifying the Acute Effects of Whole Body Vibration on Hamstring Flexibility,
In Proceedings of 3rd International Conference on Applied Human Factors and Ergonomics (AHFE), CD-ROM, Miami, USA, July 2010
- June 2009 Shin, D., Design Collaboration: University-Industry Partnerships in New Product Development,
In Proceedings of the International Association of Societies of Design Research (IASDR), CD-ROM, pp 208 (abstract), Seoul, South Korea, June 2009
- May 2009 Shin, D., Virtual Explorers: An Alternative Approach to Teaching Digital Rapid Visualization,
In Proceedings of the 2009 IDSA (Industrial Designers Society of America) International Conference, USB Flash, Miami, FL, USA, May 2009
- May 2009 Shin, D., Exploring Digital Rapid Visualization In Industrial Design Education,
In Proceedings of 11th International Conference on Engineering and Product Design Education (E&PDE), Creating a Better World, pp 257-262, Brighton, UK, 2009
- Sep. 2008 Shin, D., Safe at Any Speed: An Innovative Design Solution for Emergency Vehicles,
In Proceedings of the 2008 IDSA (Industrial Designers Society of America) National Conference & Education Symposium, pp 211-220, Phoenix, AZ, USA, Sep. 2008
- Sep. 2008 Shin, D., Wolf, P., Herring, D., & Thomas, S. Steps in the Right Direction: A multi-disciplinary approach to developing an innovative stroke rehabilitative device,
In Proceedings of the 2008 IDSA (Industrial Designers Society of America) National Conference & Education Symposium, pp 221-225, Phoenix, AZ, USA, Sep. 2008
- Sep. 2008 Shin, D., Infant Safety In Ambulances: Learning From Collaborative Innovation,
In Proceedings of 10th International Conference on Engineering and Product Design Education (E&PDE), New Perspective in Design Education, pp 605-610, Barcelona, Spain, Sep. 2008

- July 2008
Shin, D., It Takes Two to Tango: Designers and engineers team up to develop an innovative stroke rehabilitation device,
In Proceedings of 2nd International Conference on Applied Human Factors and Ergonomics (AHFE), CD-ROM, Las Vegas, USA, July 2008
- May 2008
Boehler, A., Hollander, K., Shin, D. & Sugar T., "Design, Implementation and Test Results of a Robust Control Method for a Powered Ankle Foot Orthosis (AFO)",
In Proceedings of 2008 IEEE International Conference on Robotics and Automation, pp 2025-2030, Pasadena, CA, USA, May 2008
- May 2007
Shin, D. & Patel, K., Degrees of the Intangible: Indices of Emotion for Product Design,
In Proceedings of the 2007 Spring Conference of Korean Society for Emotion & Sensibility & International Symposium on Emotion, Emotion & Globalization, pp176-179, Seoul, South Korea, May 2007
- Nov. 2006
Shin, D., Boradkar P. & Fischer, A. "Asking All the Right Questions: A Strategy for Holistic Brand Innovation",
In Proceedings of the International Conference on Strategic Innovation and Creativity in Brand & Design Management, pp 249-263, Seoul, South Korea, Nov. 2006
- Nov. 2006
Shin, D., Integrated Innovation Model for Holistic Contextual Brand Development,
In Proceedings of the 9th International Design Seminar, The New Role of Design, pp 19-26, Inje University, South Korea, Nov. 2006
- July 2006
Shin, D., Takamura, J.J., Christensen, T. & Bacalzo, D., "Go With the Flo",
In Proceedings of 2nd International Conference on Design Computing and Cognition (DCC06), Netherlands, Poster
- July 2006
Takamura, J., Shin, D., Christensen, T. & Bacalzo, D. Go with the Flo: Designing Social Benefits into a Product,
In Proceedings of AASHE (Association for the Advancement of Sustainability in Higher Education) Conference, Poster Presentation, Tempe, AZ, USA, Oct. 2006
- Oct. 2006
Takamura, J., Shin, D., Christensen, T. & Bacalzo, D., Go With The Flo: A report on a collaborative toilet design project that utilized a transdisciplinary approach,
In Proceedings of the Design Research Society Wonderground Conference (Wonderground 2006), Lisbon, Portugal, Oct. 2006.
<http://www.iade.pt/drs2006/wonderground/proceedings/fullpapers.html>

- Sep. 2006 Takamura, J.J., Shin, D., Christensen, T. & Bacalzo, D., Going With the Flo: A Case Study of a Transdisciplinary Approach to Designing a Transgenerational Toilet,
In Proceedings of Unintended Consequences Exhibit and Publication, pp 39-44, Arizona State University Press 2006
- Sep. 2006 Shin, D., Small Devices to Solve Big Problems: Designing Products for Emergency Situations,
In Proceedings of the 2006 IDSA (Industrial Designers Society of America) National Conference & Education Symposium, pp 175-179, Austin, TX, USA, Sep. 2006
- Sep. 2006 Shin, D., Takamura, J.J., Christensen, T. & Bacalzo, D., "Go With The Flo: A Case Study Of Transdisciplinary Product Development",
In Proceedings of the 8th Engineering and Product Design Education Conference (EPDE06), Educating Designers for a Global Context?, pp 69-74, Salzburg, Austria, Sep. 2006
- Aug. 2005 Shin, D., Collaborative Design: Shaping Assistive Technology Devices,
In Proceedings of the 2005 IDSA (Industrial Designers Society of America) Education Conference, pp 145-154, Washington D.C, USA, Aug. 2005

JOURNALS

- July 2015 Shin, D., & Wang, Z., The Experimentation of Matrix for Product Emotion, *Procedia Manufacturing Journal*, Volume 3, pp 2295–2302, July 2015, ISSN: 2351-9789
<https://doi.org/10.1016/j.promfg.2015.07.375>
- Apr. 2010 Shin, D., The Significance Of The Collaborative Design Process In The Institutional Context
Journal of Digital Interaction Design (DID), vol. 9, No. 1, pp 95-108, April 2010
- Jan. 2009 Shin, D., Boradkar, P. & Fischer, A., A Green Dream Team
Journal of Design Management Review (DMI), Green Design, Vol. 19, No. 4, pp 49-53, Jan. 2009
- June 2008 Ward, J., Boehler, A., Hollander, K., Shin, D. & Sugar T. Control Architectures for a Powered Ankle Foot Orthosis
International Journal of Assistive Robotics and Mechatronics (ARM), Vol. 9, No. 2, pp 2-13, June 2008, KAIST press
- Nov. 2005 Shin, D., & Son, K., Object and Approach Sequence by Analysis of Water Space – Focus on Tadao Ando's work
International Journal of Asia Interior Design Institutions Association, Vol 5, pp 95-102, Nov. 2005

MAGAZINE / TV NEWS CHANNEL / WEBSITE

- Sep. 2019 Re:Vision, The Design School, Arizona State University
"Industrial design alumna and professor win prototype award"
- Aug. 2019 DISRUPT, Issues 2018-2019 magazine, The Design School Highlights
from 2018-2019, page 24,
'Prototyping puppy paws'
<https://disrupt.asu.edu/article/the-design-school-highlights/>
- Aug. 2019 Yankodesign, Design highlight on Yankodesign.com,
<https://www.yankodesign.com/2019/07/26/entries-are-now-open-for-the-a-design-awards-and-competition-2020/>
'Quiett' Induction Cooktop by Seokhyun Park and Dosun Shin
- Jan. 2019 DAC, the Design Classifications website which ranks all designers
worldwide,
Ranked #18 World's Best Protective Equipment Designer, Ranked by
Number of Design Awards Won by Each Designer, Worldwide
<http://designclassifications.com/design-category.php?classification=43>
- Nov. 2018 IDSA (Industrial Designers Society of America) Newsletter, designBytes,
'A Helping Hand',
<https://www.idsa.org/news/designbytes?page=2>
- Sep. 2018 The State Press, 'Herberger lends a helping hand to a three-legged
dog in need' on,
<http://www.statepress.com/article/2018/10/spcommunity-asu-designs-prosthetic-for-dog-in-need>
- Sep. 2018 3TV & CBS 5 News Channel, Design research recognition and
interview, 'ASU helps deserving dog to receive prosthetic leg',
https://www.azfamily.com/news/asu-helps-deserving-dog-to-receive-prosthetic-leg/article_19205292-c384-11e8-9e9c-3fad90c2abf9.html
- Jan. 2014 CBS 5 News Channel, Design recognition, FIT Guard,
<http://www.kpho.com/story/24054200/sunday-light-up-mouthpiece-detects-possible-concussions#.UtNmBg3ea7s.email>
- Apr. 2009 Core77 website, Design recognition, The Flo™ toilet,
<https://www.core77.com/posts/13312>
- Fall 2008 Yearbook of Design Excellence in Innovation Magazine, Winners of The
2008 International Design Excellence Awards + Idea/Brasil, Guardian
Safety Seat, pp 196-197, Fall 2008
- July 2008 BusinessWeek website, Guardian Safety Seat
http://images.businessweek.com/ss/08/07/0717_idea_winners/201.htm

- Oct. 2008 The State Press (Arizona State University), the work of Hand Mentor Pro rehabilitation, "ASU uses video games to help stroke victims heal", pp 1 and 3, Oct. 24, 2009
- May 2008 MDDI (Medical Device & Diagnostic Industry) Magazine, 2008 MDEA (Medical Design Excellence Awards), The Hand Mentor Pro rehabilitation, pp 36, May 2008
- Dec. 2007 Arizona Republic local newspaper, Quoted in article for the work of Guardian Safety Seat, Dec. 6, 2007
- Oct. 2007 Phoenix Business Journal, Quoted in article for "Company develops child seats for ambulances", pp 7, Oct. 19, 2007
- Spring 2007 CNN, FOX and MSNBC Headline news, the story of Nutty Buddy® that I designed
- July 2006 BusinessWeek website, Design recognition of Nutty Buddy®
<http://images.businessweek.com/ss/06/06/idea2006/source/53.htm>
- Fall 2006 2006 Yearbook of Industrial Design Excellence on Innovation Magazine, Nutty Buddy®, pp 166

DESIGN AWARDS

- Apr. 2020 A' Design Iron Award in Home Appliances Design Award Category, Milan, Italy, 2020, PharmAssist Medication Management Device,
<https://competition.adesignaward.com/gooddesign.php?ID=92102>
Co-designer: Muriel Shields
- Aug. 2019 2019 Winner of MOA (Model One Award) by Model Solution owned by Hankook Technology Group Company, South Korea,
'Torus' is the fan that distribute air in 360 degrees and offers a more efficient and sustainable way to better circulate and cool the air in a space.
<https://www.model-solution.com/en/model-solution-news/25>
Faculty: Dosun Shin, Student: Seyla Muise
- Apr. 2019 A' Design Silver Award in Home Appliances Design Award Category, Milan, Italy, 2019, Quiett Induction Cooktop, *Research Sample 4
<https://competition.adesignaward.com/gooddesign.php?ID=70753>
Co-designer: Seokhyun Park
- Aug. 2018 2018 Winner of MOA (Model One Award) by Model Solution in South Korea, Quiett Induction Cooktop, *Research Sample 4
'QUIETT' is an induction cooktop that uses a streaming system to help users to cook.
Faculty: Dosun Shin, Student: Seokhyun Park

- Apr. 2017 A' Design Iron Award, Milan, Italy, 2017, Nutty Buddy Flex Athletic Cup Male Genital Athletic Protection Cup,
<https://competition.adesignaward.com/design.php?ID=55726>
- Aug. 2017 2017 Winner of MOA (Model One Award) by Model Solution in South Korea,
'Zero' is a tool that enhances athletic performance by strengthening an athlete's focus on clear and simple form oriented sub-goals.
Faculty: Dosun Shin, Student: Eran Vautour
- Aug. 2016 2016 Winner of MOA (Model One Award) by Model Solution in South Korea,
'SALUD' which is designed to replace a standard refrigerator water and ice-dispensing unit, is an in-home, low-profile, and automated medication management device for elderly patients.
Faculty: Dosun Shin, Student: Muriel Shields
<https://asunow.asu.edu/20170306-south-korean-company-sponsors-asu-design-school-building-prototypes-students>
- Mar. 2009 Silver Prize: The 12th Biennial Northwest Design Invitational, IDSA NW, Go with the Flo, transgenerational, ergonomic and sustainable toilet design concept for baby boomers that functions like a squat toilet.
- Oct. 2008 2008 EMS (Emergency Medical Services) Expo Top Innovation Awards, Las Vegas, Oct. 2008, Guardian Safety Seat
- July 2008 Bronze Prize: 2008 IDEA (Industrial Design Excellence Awards), Sponsored by BusinessWeek and IDSA (Industrial Designers Society of America), USA
Guardian Safety Seat – A car seat for emergency response vehicles that contains both a child safety seat and infant carrier.
- June 2008 2008 JEMS (Journal of Emergency Medical Services) Hot Products, Guardian Safety Seat
- May 2008 Silver Prize: 2008 MDEA (Medical Design Excellence Awards)
The Hand Mentor Pro rehabilitation – The Hand Mentor Pro rehabilitation system delivers therapy to promote the restoration of function in the wrist, hand and fingers of stroke survivors and other neurological injury patients.
- July 2006 Bronze Prize: 2006 IDEA (Industrial Design Excellence Awards), Sponsored by BusinessWeek and IDSA (Industrial Designers Society of America), USA
Nutty Buddy ®, A patented anatomically correct athletic protective cup
- Jan. 2004 2004 VESTA Award Winner, CA, USA
Fire Stone Legacy Electric Convection Grill, Fire Stone Home Product, Burnsville, MN, USA

Dec.1998	Special Prize: 29th Nation University "Beauty" Fine Arts Fair, South Korea Compressed Air Bank System - Air collector, Conceptual Product Design
Dec.1998	Silver Prize: 17th Daegu City Industrial Design Competition, South Korea "Mi-Co (Micro Cosmos)" - Learning kit for children
June 1998	Silver Prize: 29th Kyung Book Industrial Design Fair, South Korea Innovative Fire Extinguisher (User Friendly Design)
May 1998	Honorable Mention: 33rd Korea Industrial Design Competition, South Korea Gas Mask (Compressed air tank module mask) Housed in Korea Design Museum
Oct. 1997	Honorable Mention: 16th Daegu City Industrial Design Competition, South Korea Integrated Token Box for Bus
Nov. 1997	Honorable Mention: LG International Electronics Design Competition, South Korea Metabolism Monitoring Instrument for Self-diagnostics
Sep.1997	Special Prize: 28th Kyung-Book Industrial Design Fair, South Korea Electronic Admission Ticket Reader for Stadiums
Oct.1996	Honorable Mention: 2nd International College Students Cosmetics Container Design Fair, South Korea Traditional Manicure Set for Compact Arrangement
May 1996	Bronze Prize: The 27th Kyung Book Industrial Design Fair, South Korea Portable Soil Composition Checking Machine for Farmers

DESIGN PATENTS

2017	Baseball Tee Product (Patent number: US 62/462,000)
2011	Secondary Computing Device Display (Patent number: US 7889481)
2008	Guardian Safety Seat (Patent number: US 1. 200 901 279 03)
2005	Homogeneous Vent Cap (Patent number: US 7074121)

DESIGN EXHIBITIONS

- Dec. 2017 – Mar. 2018 International and curated design exhibitions showcasing the very best designs from across the globe, Utopa International Design Exhibition, Nutty Buddy Flex Athletic Cup Male Genital Athletic Protection Cup
Place: ShenNonTaiYangCheng, ZhuZhou City, HuNan Province, China
Dec. 26, 2017- March, 20, 2018
- Nov. 2017 Shenzhen International Industrial Design Fair, Nutty Buddy Flex Athletic Cup Male Genital Athletic Protection Cup
Place: Shenzhen Convention & Exhibition Center, Shenzhen, China
Nov. 5, 2017- Nov. 7, 2017
- Oct. 2017 40 x 40 Exhibition Budapest, Nutty Buddy Flex Athletic Cup Male Genital Athletic Protection Cup
Place: Budapest Projekt Galeria, Budapest, Hungary
Oct, 8, 2017- Oct. 31, 2017
- Sep. 2017 Festival of Architecture and Interior Designing Conference, Nutty Buddy Flex Athletic Cup Male Genital Athletic Protection Cup
Place: The Lalit Mumbai, Mumbai, India
Sep. 22, 2017- Sep. 23, 2017
- May 2003 Exhibition of Master of Fine Arts
Place: Krannert Art Museum, University of Illinois at Urbana-Champaign, IL, USA
Exhibit project: A new vegetable storage unit for fresh produce using the concept of idea fusion
- Apr. 2003 Graduate & Senior Graduation Exhibition
Place: I-Space, Chicago, IL, USA
Exhibit project: A New Design Approach- Application of The Idea of Fusion
- Sep. 2000 Industrial Design Exhibition
Place: The 31st Kyung Book Industrial Design Fair, Kyung-Ju, S. Korea
Exhibit project: Hot Water Bubble Massage Equipment for Hemorrhoids Patients and Pregnant Women
- Sep. 1999 Industrial Design Exhibition
Place: The 30th Kyung Book Industrial Design Fair, Kyung-Ju, South Korea
Exhibit project: Home Telephone
- Nov. 1998 Industrial Design Senior Graduation Exhibition
Place: Keimyung University, South Korea
Exhibit project: "Mi-Co" (Learning kit for children)

TEXTBOOK (non-peer reviewed publication)

- July 2014 Shin, D., 'Introduction to the U.S. Design Education for Disabled People and Advanced Design Practice', 144 pages in total, Human Resources Development Institute, July 2014, South Korea
- July 2007 Shin, D., 'New Design Technology and Education Methodology in Digital Environment: Advanced Design Technology and Methodology in Design Education', 128 pages in total, Human Resources Development Institute, Copy Land, July 2007, South Korea

RESEARCH PRESENTATIONS:**CONFERENCES (peer reviewed)**

- July 2020 "Design of the Future Workstation: Enhancing Health and Wellbeing on the Job"
AHFE 2020 Virtual Conferences on Software and Systems Engineering, and Artificial Intelligence and Social Computing, July 16-20, 2020, USA
- Oct. 2019 "Biomimicry Design as the Sustainable Solution to Human Challenges"
Invited speaker to a special session
10th International Conference on ICT (Information and Communication Technology) Convergence, Oct. 21-23, 2019, Jeju Island, South Korea
- Sep. 2019 "Assistive Mobility Device Design for Handicapped Dog"
Poster presentation, 2019 American Orthotic and Prosthetic Association (AOPA) National Assembly, Sep 25-28, 2019, San Diego Convention Center CA, USA
- July 2018 "A Comparative Study of Product Usability and Ergonomic Assessment of Server Lifts"
AHFE 2018 International Conferences on Usability & User Experience and Assistive Technology, July 21-25, 2018, Orlando, Florida, USA
- Sep. 2016 "Tactile Digital: An Exploration of Merging Ceramic Art and Industrial Design"
18th Engineering & Product Design Education (E&PDE) Conference, Sep, Aalborg University, Denmark
- July 2015 "The Experimentation of Matrix for Product Emotion"
6th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences, July, Las Vegas, USA
- May 2014 "Make Product Alive: Applying Emotional Design in Health Care Products"
1st Asian Conference on Ergonomics and Design (ACED 2014), May 2014, Jeju, South Korea
- Aug. 2013 "Design And Health Promotion Combating Sedentary Behavior"

- 2013 IDSA (Industrial Designers Society of America) International Conference & Education Symposium, Aug. 2013, Chicago, USA
- Jan. 2012 "Applying the Concept of Fusion for Successful Product Development"
6th International Conference on Design Principles and Practices, Jan. 2012, UCLA, CA, USA
- Jan. 2012 "Digital Technologies In Industrial Design: A Comparative Study Of Education And Industry Practice"
10th Annual Hawaii International Conference on Arts and Humanities, Jan. 2012, Hawaii, USA
- Jan. 2012 "Nutty Buddy": The Development Of The First Anatomically Correct Athletic Cup*
10th Annual Hawaii International Conference on Arts and Humanities, Jan. 2012, Hawaii, USA
- Oct. 2009 "Design Collaboration: University-Industry Partnerships in New Product Development"
The International Association of Societies of Design Research (IASDR), Oct. 2009, Seoul, South Korea
- Sep. 2009 "Virtual Explorers: An Alternative Approach to Teaching Digital Rapid Visualization"
2009 IDSA (Industrial Designers Society of America) International Conference, Sep. 2009, Miami, FL, USA
- Sep. 2009 "Exploring Digital Rapid Visualization In Industrial Design Education"
11th International Conference on Engineering and Product Design Education (E&PDE), Sep. 2009, Brighton, UK
- Mar. 2009 "A Case study of a new product innovation in collaboration (Guardian Safety Seat)"
'Show-N-Tell' Workshop at EXPOSED 09 Design Research Conference, Arizona State University, Mar. 2009, AZ, USA
- Sep. 2008 "Infant Safety In Ambulances: Learning From Collaborative Innovation"
10th International Conference on Engineering and Product Design Education (E&PDE), Sep. 2008, Barcelona, Spain
- Sep. 2008 "Safe at Any Speed, An Innovative Design Solution for Emergency Vehicles"
2008 IDSA (Industrial Designers Society of America) National Conference & Education Symposium, Sep. 2008, Phoenix, AZ, USA
- July 2008 "It Takes Two To Tango: Designers And Engineers Team Up To Develop An Innovative Stroke Rehabilitation Device"
2nd International Conference on Applied Human Factors and Ergonomics (AHFE), July 2008, Las Vegas, USA

- May 2007 "Degrees of the Intangible: Indices of Emotion for Product Design"
2007 Spring Conference of Korean Society for Emotion & Sensibility & International Symposium on Emotion, May. 2007, Seoul, South Korea
- Nov. 2006 "Asking All the Right Questions: A Strategy for Holistic Brand Innovation"
2nd International Conference on Strategic Innovation and Creativity in Brand & Design Management, organized by DMI, DBMS and IPS-BMI, Nov. 2006, Seoul, South Korea
- Nov. 2006 Integrated Innovation Model for Holistic Contextual Brand Development
In Proceedings of the 9th International Design Seminar (The New Role of Design), Nov. 2006, Inje University, South Korea
- Sep. 2006 "Small Devices to Solve Big Problems: Designing Products for Emergency Situations"
2006 National IDSA Conference & Education Symposium, Sep. 2006, Austin, TX, USA
- Sep. 2006 "Promoting a Healthy Aging Experience for Women"
Co-presenter with Prof. Prasad Boradkar, 2006 IDSA National Conference & Education Symposium, Sep. 2006, Austin, TX, USA
- Aug. 2006 "Go With The Flo: A Case Study Of Transdisciplinary Product Development"
8th Engineering and Product Design Education Conference, Salzburg University of Applied Sciences, Aug. 2006, Salzburg, Austria
- Apr. 2006 "Promoting a Healthy Aging Experience for Women"
Co-presenter with Prof. Boradkar, Proctor & Gamble Headquarter, Apr. 2006, Cincinnati, OH, USA
- Aug. 2005 "Collaborative Design: Shaping Assistive Technology Devices"
2005 IDSA Education Conference, Aug. 2005, Washington D.C, USA

SCHOLARLY INVITED LECTURES

- June 2019 Topic: "New Product Innovation and Development in Collaboration between University and Local Community"
JTP (JEJU TECHNOPARK), Jeju, South Korea
- June 2019 Topic: "Design For Community: Challenges In Helping Needs And Usability Studies For Assistive Device"
Inje University, Gimhae, South Korea
- June 2019 Topic: "New Product Innovation and Development in Collaboration between University and Local Community"
Dong-eui University, Busan, South Korea

- May 2019
Topic: "The Introduction of Biomimicry Design and the Nature's Models"
ETRI (Electronics and Telecommunications Research Institute), Korean government-funded research institution, Main Research Campus, Daejeon, South Korea
- May 2019
Topic: "Design Exploration of Mobility Assistive Device for a Handicapped Dog"
ETRI (Electronics and Telecommunications Research Institute), Korean government-funded research institution, Daegu, South Korea
- May 2019
Topic: "Design As A Powerful Force To Solve The Challenges Of Assistive Device Design And Engineering"
Dongguk University, Seoul, South Korea
- Mar. 2019
Topic: "Introduction To Rapid Prototyping Techniques And Case Studies In Industrial Design To Showcase The Features And Benefits Of Using These Techniques"
Invited to CEE494/598, Bioinspired Design class (Prof. Julian Tao), School of Sustainable Engineering and the Built Environment, Arizona State University, USA
- July 2017
Topic: "The Specialized Educational Focuses of Industrial Design in U.S."
Invited guest lecture, School of Engineering, Dongguk University, Seoul, South Korea
- June 2017
Topic: "Industrial Design Process and New Product Innovation"
Invited guest lecture, ETRI (Electronics and Telecommunications Research Institute), Korean government-funded research institution, Daegu, South Korea
- June 2017
Topic: "Human-Centered Design"
Invited guest lecture, Brain Korea (BK) 21 program by the Ministry of Education of South Korea, Inje University, Gimhae, South Korea
- June 2017
Topic: "The Process of New Product Development"
Korea University of Technology and Education, Cheon-Ahn, South Korea
- June 2015
Topic: "Design for Public Health"
Invited guest lecture, Inje University, Gimhae, South Korea
- May 2015
Topic: "Design & Health Promotion"
Invited guest lecture, ETRI (Electronics and Telecommunications Research Institute) which is a Korean government-funded research institution, Daejeon, South Korea

- June 2014
Topic: "Discussion with 21st Century Design Leader"
Invited guest lecture, KIDP (Korea Institute of Design Promotion) & Silla University, Busan, South Korea
- Oct. 2009
Topic: "A Case Study on New Product Development Explored in Industrial Design at Arizona State University"
Invited guest lecture, College of Design, Inje University, Gimhae, South Korea, Oct. 2009
- Oct. 2009
Topic: "The Significances of Design Collaboration in New Product Development"
Invited guest lecture, Dept. of Industrial Design, Korea University of Technology and Education, Cheon-Ahn, South Korea, Oct. 2009
- July 2007
Topic: "The Methodology of Aesthetic Development"
Invited guest lecture, Human Resource Development Institute, South Korea, July 2007
- Nov. 2006
Topic: "Integrated Innovation Model for Holistic Contextual Brand Development"
Invited guest lecture, BK21 Smart Home UID Research group, Inje University, Gimhae, South Korea, Nov. 2006
- June 2006
Topic: "Transdisciplinary Design Research and Education in the New American University: Focusing on the design process and design assessment"
Invited guest lecture, Dept. of Industrial Design, Keimyung University, Daegu, South Korea, June 2006
- June 2006
Topic: "Transdisciplinary Design Research and Education in the New American University: Focusing on design and manufacturing"
Invited guest lecture, Dept. of Industrial Design, Korea University of Technology and Education, Cheon-Ahn, South Korea, June 2006
- Feb. 2006
Topic: "Collaborative Design"
Invited guest lecture, English & Design International Study Abroad Program, ASU AECPP (American English and Culture Program), Arizona State University, USA, Feb. 2006

RESEARCH GRANT PROPOSALS:

- Aug. 2020
FUNDED
The Future of Workplace Wellness
Sponsor: National Science Foundation (NSF)
Grant Amount: \$149,343
Status: Funded
Period: Sep. 2020 – Aug. 2021
Role: Co-Principal Investigator

Leading design process for the future sit-stand therapy workstation development, User behavior research and human factor & interaction study, Concept ideation and virtual visualization through computer-aided design, Sensor modules for measure sitting times and transitions
 Co-PI: Pavan Turaga (PI), Matthew Buman, Grisha Coleman, Todd Ingalls, Ellen Green

Apr. 2019

HIDA Research Investment Fund
 Sponsor: HIDA (Herberger Institute For Design And The Arts), Arizona State University
 Grant Amount: \$7,500
 Status: Funded
 Period: June 2019 – June 2020
 Role: Principal Investigator, 'Assistive Mobility Device Design for Handicapped Dog', Conducting research and design of a prosthetic leg or assistive wheeled device for handicapped dog

Feb. 2019

HIDA-CHS Collaborative Seed Grant
 Sponsor: HIDA (Herberger Institute For Design And The Arts) & CHS (College of Health Solutions), Arizona State University
 Grant Amount: \$8,000
 Status: Funded
 Period: Feb. 2019 – Jan. 2020
 Role: Principal Investigator, 'Enhancing health and wellbeing on the job', developing new designs for instrumented sit-stand workstations using embedded sensors that will be used to assess postural stability, sit-to-stand efficiency, as well as to facilitate "in-the-moment" prompts to increase standing behaviors.
 Co-PI: Pavan Turaga, Assegid Kidane, Matt Buman, Todd Ingalls

Aug. 2018

University and Industry Research Collaboration
 Sponsor: LG Electronics, Seoul, South Korea
 Grant Amount: \$50,000
 Status: Funded
 Period: Aug. 2018 – May. 2019
 Role: Principal Investigator, 'Wind Comfort and Energy Systems', Developing innovative and sustainable products and services that utilize new technologies, solve critical problems for users and reduce environmental impact.

Aug. 2018

University and Industry Research Collaboration
 Sponsor: Cisco Foundation, USA
 Grant Amount: \$50,000
 Status: Funded
 Period: Aug. 2018 – May. 2019
 Role: Principal Investigator, 'Internet of Things (IoT) for Individuals with Disabilities', Understanding the needs of people who face physical,

cognitive or sensory disabilities, and develop new products and services for them utilizing the potential of the new technologies called the Internet of Things.

- Mar. 2017 University and Industry Research Collaboration
 Sponsor: Esselte Corporation, USA
 Grant Amount: \$20,000
 Status: Funded
 Period: March. 2017 – July. 2017
 Role: Co-Principal Investigator, Leading a new design project for Xyron's CREATE a STICKER product, and working with the business and engineering department of ACCO Brands, USA
- Sep. 2016 University and Industry Research Collaboration
 Sponsor: ServerLift Corporation, Scottsdale, AZ
 Grant Amount: \$20,000
 Status: Funded
 Period: Sep. 2016 – Dec. 2016
 Role: Co-Principal Investigator, Leading a cross-disciplinary collaboration project for Product Analysis and Design Assessment for SeverLift product. Working with the students from industrial design and engineering school and Prof. Steven Trimble, School of Engineering
- May. 2013 Herberger Institute Collaborative Research Fund
 Sponsor: Herberger Institute For Design And The Arts
 Grant Amount: \$5,000
 Status: Funded
 Period: May 2013 – May 2014
 Role: Principal Investigator with Prof. Samuel Chung from School of Art (Ceramics), 'Crafting a Cross-Disciplinary Dialogue Between Ceramics and Industrial Design', a pilot project for future endeavors including the creation of a cross-disciplinary course between ceramics and design, and a potential design business within the University.
 Co-PI: Prof. Samuel Chung
- Jan. 2013 University and Industry Research Collaboration
 Sponsor: Henkel (Dial) Corporation, Scottsdale, AZ
 Grant Amount: \$45,000
 Status: Funded
 Period: Jan. 2013 – Sep. 2013
 Role: Co-Principal Investigator, 'Innovation for Sustainability Service (IfS)', designing and developing a Non-powered Air Freshener Device for the domestic environment. This is a university joint research project collaborating with the ASU's School of Sustainability and the Ira A Fulton Schools of Engineering's Mechanical Engineering department.
 Co-PI: Prof. Prasad Boradkar
- June 2010 University and Industry Research Collaboration
 Sponsor: Samsung Design America, LA, CA

- Grant Amount: \$20,000
 Status: Funded
 Period: May 24 – July 19, 2010
 Role: Principal Investigator, 'Reshaping of Future Mobile Phone', responsible for the project and leading the ASU student design team, conceptualizing new interaction & interface and designing a new smart mobile phone for baby boomers for US market
- July 2009
- Patient Care Innovation: Assessing the IV Pole Human Factor Interface
 Sponsor: Mayo Clinic
 Grant Amount: \$20,000
 Status: Funded
 Research partners: Mayo Clinic, ASU BioDesign Institute, ASU Center for Healthcare Innovation & Clinical Trials
 Role: Co-Principal Investigator, designing a new IV-Pole wheelbase and fabricating a functional prototype to test the three primary areas: mobility, stability and usability. Responsible for conducting tests with patients, clinical staffs and family/caregivers in Mayo Clinic on the new IV-Pole, collecting data from questionnaires, videotaping and observations and analyzing data.
 Co-PI: Prof. Frederic Zenhausern, Prof. Teri Britt Pipe, Linda Mottle, Susan McGarity
- Nov. 2006
- The Research of A Safety Seat for Emergency Vehicles
 Sponsor: Serenity Safety Products, Inc.
 Grant Amount: \$6,000
 Status: Funded
 Role: Principal Investigator, developing a new safe infant seat for emergency vehicles, preliminary design research, concept development and rapid prototyping.
- Apr. 2006
- Robotic Spring Ankle for Gait Assistance
 Sponsor: NIH-NICHD (National Institutes of Health–The National Institute of Child Health and Human)
 Grant Amount: \$359,000
 Status: Funded
 Period: April 1, 2006 - March 31, 2008
 Role: Co-Principal Investigator, responsible for generating design ideas for the device, developing the esthetic direction for the robotic ankle assistive device and creating digital visualization and CAD engineering drawings for the prototype.
 Co-PI: Prof. Thomas Sugar and Prof. Donald Herring
- Jan. 2006
- Promoting a Healthy Aging Experience for Women
 Sponsor: Proctor & Gamble / IDSA
 Grant Amount: \$40,000
 Status: Funded
 Period: January 2006 - April 2006

Role: Co-Principal Investigator, responsible for leading the design project with the co-PI, providing professional expertise and feedback for the new product development student teams, teaching concept generation / concept development / design visualization
Co-PI: Prof. Prasad Boradkar

Jan. 2006

2006 Coyote Crisis Campaign (CCC)
Sponsor: Columbia University, ASU BioDesign Institute, College of Design Dean's office
Grant Amount: \$6,000
Status: Funded
Period: January 2006 - May 2006
Role: Leading faculty for CCC project with Prof. Jennifer Brungart, designing new nanotechnology-enabled products, developing emergency scenarios of CCC, creating prototypes and attending conferences and final CCC simulation at Scottsdale with other partners.

May 2005

Catalyst Grant for "Muscular Dystrophy Pneumatic Arm-Lifting Assistive Device"
Sponsor: Herberger Center for Design Research, Arizona State University
Grant Amount: \$2,000
Status: Funded
Period: June 2005 - May 2006
Role: Co-Principal Investigator, developing a muscular dystrophy pneumatic arm-lifting assistive device and the first generation wheelchair-mounted arm-lifting device.
Co-PI: Prof. Donald Herring

Sep. 2019

NOT FUNDED
Women and Philanthropy Grant
Grant Amount: \$100,000
Status: Not funded
Period: Nov. 2019 – Nov. 2020
Role: Co-PD/PI, Senior/Key Person on the proposal
The research aims to disrupt the sedentary culture in the American workplace. Funds will be used to create a prototype of the next generation of instrumented and enlivened sit-stand workstations, fusing interdisciplinary insights from design, engineering, and the arts.
Co-PD/PI: Pavan Turaga (Internal PI), Matthew Buman, Grisha Coleman, Todd Ingalls, Assegid Kidane, Robert LiKamWa

Oct. 2018

HIDA Research Investment Fund
Sponsor: HIDA (Herberger Institute For Design And The Arts), Arizona State University
Grant Amount: \$20,000
Status: Not funded
Period: Jan. 2019 – Aug. 2020

	<p>Role: Principal Investigator, 'Help deserving dog to receive prosthetic leg, Conducting research and design of a prosthetic leg for handicapped dog.</p>
June 2018	<p>Designing Seapods with biomimicry and user-centered design Sponsor: HIDA/IAFSE Collaborative Seed Grant Amount: \$20,000 Status: Not funded Period: April 2018 – April 2019 Role: Co-Principal Investigator, designing Seapods and developing the functionality with the concept of biomimicry and user-centered design Co-PI: Prof. Shahnawaz Sinha, Prof. Prasad Boradkar</p>
July 2011	<p>Ford Motor Company Fund Sponsor: Ford Motor Company Fund & Community Services Amount: \$50,000 Status: Not funded Period: July 2011 – July 2012 Role: Co-Principal Investigator Co-PI: Prof. Prasad Boradkar</p>
Mar. 2009	<p>Off the Shelf and into the Market: Commercializing Nanotechnology Product Concepts in InnovationSpace Sponsor: Center for Nano Technology Amount: \$60,000 Status: Not funded Period: August 2009 – August 2012 Role: Principal Investigator, helping students manage design projects, guiding them through the process of design and development, 3D modeling, visualization and rapid prototyping. Co-PI: Prof. Prasad Boradkar, Prof. David Guston, Prof. Cynthia Selin</p>
Feb. 2009	<p>The 'Save-It Skull Cap' Sponsor: Advanced Technology Innovation Center, ASU Amount: \$9,200 Status: Not funded Role: Principal Investigator, research and design of an innovative protective headgear called "Save-It Skull Cap".</p>
May 2008	<p>PulseTracer Sponsor: Pulse Tracer Technologies, Inc Amount: \$11,500 Status: Not funded Role: Principal Investigator, conducting research and design of a wrist-worn device that monitors and records heart rate activity on a continuous basis. Responsible for delivering user research, possible design options, a final design of the product and a final design of interface.</p>

- Nov. 2006
Water Efficient Appliance Technology Development
Sponsor: Water Resource Research Center (WRRC), FY 2007 SECTION 104B
Amount: \$12,000
Status: Not funded
Role: Principal Investigator, developing new innovative technology and designing a transgenerational toilet that is sustainable (environmentally responsible and socially conscious).
Co-PI: Prof. John Takamura
- Oct. 2006
Water Efficient Appliance Technology Development
Sponsor: 2007 Sustainable Vision Grants (National Collegiate Inventors & Innovators Alliance)
Amount: \$50,000
Status: Not funded
Role: Principal Investigator, developing new innovative technology and designing a transgenerational toilet that is sustainable (environmentally responsible and socially conscious).
Co-PI: Prof. John Takamura
- Oct. 2006
Water Efficient Appliance Technology Development
Sponsor: Arizona Water Institute
Amount: \$50,000
Status: Not funded
Role: Principal Investigator, developing new innovative technology and designing a transgenerational toilet that is sustainable (environmentally responsible and socially conscious)
- Oct. 2005
Co-PI: Prof. John Takamura
Muscular Dystrophy Pneumatic Arm-Lifting Assistive Device (PAL)
Sponsor: NIH (National Institutes of Health)
Amount: \$102,339
Status: Not funded
Role: Principal Investigator, responsible for designing a low-cost, versatile, wheelchair-mounted assistive device for people with low shoulder girdle strength.
Co-PI: Prof. Donald Herring

INDUSTRY AWARDS

- April. 2019
Awarded \$30,000 value of a working prototype sponsor from Model Solution owned by Hankook Technology Group Company, South Korea
- April. 2018
Awarded \$25,000 value of a working prototype sponsor from Model Solution, South Korea
- April. 2017
Awarded \$10,000 value of a working prototype sponsor from Model Solution, South Korea

April. 2016	Awarded \$20,000 value of a working prototype sponsor from Model Solution, South Korea
July. 2016	Granted \$5,000 gift for faculty research from Autodesk, USA
Feb. 2011	Granted \$415 for faculty advising from the 2011 IHA (International Housewares Association) 18 th Annual Student Design Competition, Chicago, USA
Nov. 2010	Granted \$20,000 gift for faculty research from Samsung Design America, LA, USA
Feb. 2009	Granted \$425 for faculty advising from the 2009 IHA (International Housewares Association) 16 th Annual Student Design Competition, Chicago, USA

DESIGN CONSULTING

Nov. 2019- May 2020	Project leader & Industrial designer Client: CTK Cosmetic, Seoul, South Korea Duties: PI, market research and design new cosmetic packaging 'Reshaping Innovative Sustainable Solution of Cosmetic Package Design'
June 2018- Apr. 2020	Industrial designer Client: Tru BP, Wisconsin, WI, USA Duties: to design a new baseball hitting practice tee
June 2016	Industrial designer Client: Individual entrepreneur, San Francisco, USA Duties: to design a new golf tee set up device for elderly people
June 2015	Industrial designer Client: American Pristine Sky Inc, Chandler, USA Duties: to design a new air-quality monitoring product for home environment in China
Aug 2015	Industrial designer Client: Individual entrepreneur, Tempe, AZ, USA Duties: to design a new Kosher wine bottle packaging and brand development
May 2015	Industrial designer Client: Nutty Buddy, Tempe, AZ, USA Duties: Designed the second generation of protective sporting cup
Aug. 2012-Oct. 2013	Industrial designer Client: Vizro VITZRO C&C Co., Ltd. Seoul, South Korea

	Duties: Designed a home energy flow Thermostat, Smart plug, and Energy flow display
Jan. 2013-Dec. 2013	Project leader & Industrial designer Client: Henkel Corporation, Scottsdale, AZ, USA Duties: to design and develop a Non-powered Air Freshener Device for the domestic environment
Dec. 2012	Industrial designer Client: Spellbinders Paper Arts, LLC, Phoenix, AZ, USA Duties: Designed a Die Cutting Machine
Dec. 2012	Industrial designer Client: KMI, Inc. Tempe, AZ, USA Duties: Designed a concept robot arm for an individual finger therapy device (upper extremity robot) for stroke patients that used for the NIH grant proposal
Dec. 2012	Research monitor Client: Tripod Inc., Tokyo, Japan Duties: With 4 other design researchers and a design group from Japan, I conducted the second phase of an EV (Electric Vehicle) warning alert sound system with 50 participants who are legally blind at AIB (Arizona Industries for the Blind), Phoenix, AZ, USA
May. 2011	Industrial designer Client: Skingoddessspa Chandler, AZ, USA Duties: designing an accessory product that attaches in the existing facial steam machine to present the steam more efficiently on the customer's face
Dec. 2010	Research monitor Client: Tripod Inc., Tokyo, Japan Duties: Monitoring and interviewing the participants who are blind for the warning sound test on Nissan EV (Electrical Vehicle). Gathering information of their responses from the test at AIB (Arizona Industries for the Blind), Phoenix, AZ, USA
Sep. 2008	Industrial designer Client: Heating and Cooling Massage Bra, Scottsdale, AZ, USA Duties: Developing a heating/cooling bra for breast cancer surgery patients.
Aug. 2008	Industrial designer Client: Sideline Inc., Scottsdale, AZ, USA Duties: Designing a portable LCD monitor attachable on laptop and desktop display screen.
Dec. 2006 - 2010	Industrial designer

- Client: Serenity Safety Products Inc., Gilbert, AZ, USA
Duties: Designing an innovative seat for ambulance and design consulting for other safety products for emergency vehicles.
- Aug. 2006 - 2010
Industrial designer
Client: KMI (Kinetic Muscles Inc.), Tempe, AZ, USA
Duties: Designing Foot Mentor rehabilitation robot device and the electronic display controller, providing 3D CAD drawing and rapid prototypes.
- Feb. 2005 – 2018
Industrial designer
Client: Nutty Buddy Inc., Scottsdale, AZ, USA
Duties: Designing an anatomically correct athletic protective cup, creating 3D virtual rendering and engineering drawing and providing rapid prototypes.
- Feb. 2004 – 2013
Industrial designer
Client: Outdoor Greatroom Company™, Burnsville, MN, USA
Duties: Design consulting for outdoor products such as gas & electric grills, fire pits, grill-islands, fireplaces, gas lamps, etc.
- Feb. 2005 – Nov. 2006
3D Animator
Client: Dr. Richard Heuser (heart specialist), St Joseph's Hospital, Phoenix, AZ, USA
Duties: Making a Flash animation and a full DVD biomedical movie illustrating the process of vein/artery surgery.
- Sep. 2005 – Dec. 2005
Industrial designer
Client: Pittsburgh Glass Block Company, Pittsburgh, PA, USA
Duties: Providing conceptual design applications and product opportunities of glass block.
- Mar. 2005 – Aug. 2005
Industrial designer
Client: JPM Health Care, IA, USA
Duties: Designing a body lifting assistive device for patients with limited mobility in hospital beds.

OTHER EXPERIENCE

- Aug. 2002 – May 2003
Computer Graphic Laboratory Assistant
Arts and Design School, University of Illinois at Urbana-Champaign, IL
Duties: Rebuild computer programs for Mac/PC, assist students in using computer related hardware and solve technical problems.
- Aug. 2002 – Dec. 2002
Woodshop Technician
Arts and Design School, University of Illinois at Urbana-Champaign, IL
Duties: Assist students and manage the woodshop.

PROFESSIONAL DEVELOPMENT

- | | |
|----------------------|---|
| Oc. 2019 – Dec. 2019 | Completed 5 weeks of online ' <i>User-Experience Design</i> ' course from Design Community College, and received an User-Experience Design Certificate from the Institute |
| Jan. 2019 | Participated ' <i>2019 Biomimicry Immersion Workshop</i> ' in Costa Rica. The seven-day cutting-edge professional training is designed to inspire the global participants to discover better ways to innovate via the methodology that change-makers around the world are using to create sustainable, disruptive innovations that help solve some of Earth's most pressing challenges. Biomimicry 3.8, https://biomimicry.net/ |

PROFESSIONAL ASSOCIATIONS

- | | |
|----------------------|--|
| May 2007 – present | Member, Korean Society for Emotion & Sensibility, South Korea |
| Sep. 2005 – present | Member, KIID (The Korean Institute of Interior Design), South Korea |
| Aug. 2001 – present | Member, IDSA (Industrial Designers Society of America), USA |
| April 1998 – present | Member, Professional Industrial Designers Society of Kyung-Book, South Korea |

COURSES TAUGHT AT THE DESIGN SCHOOL, ASU

Summer 2020 (9 credits)	DSC 236 Intro to Computer Modeling (3 credits, 8 students) IND 590 Foundation of Industrial Design Studio (6 credits, 8 students, co-taught with Dean Bacalzo)
Spring 2020 (9 credits)	IND 461 Design Project II (5 credits, 15 students) IND 494 Digital Process- Sketching (3 credits, 12 students) IND 492 Honors Directed Study (1 credit, 3 students)
Fall 2019 (3 credits)	Sabbatical Leave IND 499 Individualized Instruction (3 credits, 1 student)
Summer 2019 (9 credits)	DSC 236 Intro to Computer Modeling (3 credits, 14 students) IND 590 Foundation of Industrial Design Studio (6 credits, 13 students, co-taught with Joseph Velasquez)
Spring 2019 (11 credits)	IND 465/GRA 465/SOS 475/ENT 465 Collaborative Design Development II (5 credits, 23 students) IND 494 Digital Visualization for Design (3 credits, 12 students) DSC 590 Reading and Conference (3 credit, 1 student)
Fall 2018 (12 credits)	IND 464/GRA 464/SOS 474/ENT 464 Collaborative Design Development I (5 credits, 23 students) IND 394 Digital Graphics for Design (3 credits, 15 student) IND 484 Industrial Design (2 credits, 33 students) IND 584 Internship (1 credit, 14 students)
Summer 2018 (14 credits)	DSC 236 Intro to Computer Modeling (3 credits, 5 students) IND 590 Foundation of Industrial Design Studio (6 credits, 5 students, co-taught with Joseph Velasquez) IND 584 Internship (2 credits, 13 students) IND 590 Individualized Instruction (3 credits, 1 student)
Spring 2018 (17 credits)	IND 465/GRA 465/SOS 475/ENT 465 Collaborative Design Development II (5 credits, 26 students) IND 494/IND 598 Digital Visualization for Design (3 credits, 20 students) IND 494 Digital Process- Sketching (3 credits, 11 students) IND 492 Honors Directed Study (1 credit, 1 student) IND 493 Honors Thesis (5 credit, 1 student)
Fall 2017 (11 credits)	IND 460 Design Project I (5 credits, 15 students) IND 494/IND 598 Sculpted CAD Modeling for Product Design (3 credits, 27 student, co-taught with Reid Johnson) IND 484 Industrial Design (2 credits, 34 students) IND 584 Internship (1 credit, 19 students)
Summer 2017 (13 credits)	DSC 236 Intro to Computer Modeling (3 credits, 8 students)

	IND 590 Foundation of Industrial Design Studio (6 credits, 7 students, co-taught with Joseph Velasquez) IND 584 Internship (2 credits, 20 students) IND 484 Internship (2 credits, 1 student)
Spring 2017 (13 credits)	IND 465/GRA 465/SOS 475/MGT 465 Collaborative Design Development II (5 credits, 25 students) IND 461 Design Project II (5 credits, 16 students) IND 494/IND 598/ART 494/ART 598 Ceramic Design (3 credits, 24 students, co-taught with Samuel Chung)
Fall 2016 (11 credits)	IND 460 Design Project I (5 credits, 16 students) IND 494/IND 598 Sculpted CAD Modeling for Product Design (3 credits, 27 student, co-taught with Reid Johnson) IND 484 Industrial Design (2 credits, 32 students) IND 584 Internship (1 credit, 16 students)
Summer 2016 (13 credits)	DSC 236 Intro to Computer Modeling (3 credits, 11 students) IND 590 Foundation of Industrial Design Studio (6 credits, 11 students, co-taught with Joseph Velasquez) IND 584 Internship (2 credits, 17 students) IND 484 Internship (2 credits, 3 students)
Spring 2016 (6 credits)	IND 598 Rapid Prototyping for Design (3 credits, 16 students) IND 494 Packaging Design (3 credits, 26 students, co-taught with Katharine Britt)
Fall 2015 (12 credits)	DSC 236 Intro to Computer Modeling, Section A (3 credits, 19 students) DSC 236 Intro to Computer Modeling, Section B (3 credits, 19 students) IND 460 Design Project I (5 credits, 14 students) IND 584 Internship (1 credit, 21 students)
Summer 2015 (13 credits)	DSC 236 Intro to Computer Modeling (3 credits, 6 students) IND 590 Foundation of Industrial Design Studio (6 credits, 6 students, co-taught with Joseph Velasquez) IND 584 Internship (2 credits, 21 students) IND 484 Internship (2 credits, 1 student)
Spring 2015 (8 credits)	IND 461 Design Project II (5 credits, 14 students) IND 598 Rapid Prototyping for Design (3 credits, 21 students)
Fall 2014 (6 credits)	DSC 236 Intro to Computer Modeling (3 credits, 38 students) DSC 593 Applied Project (3 credits, 8 students)
Summer 2014 (9 credits)	DSC 236 Intro to Computer Modeling (3 credits, 10 students) IND 590 Foundation of Industrial Design Studio (6 credits, 8 students, co-taught with Joseph Velasquez)
Spring 2014 (11 credits)	IND 590 Advanced ID Studio II (5 credits, 10 students)

	IND 598 Rapid Prototyping for Design (3 credits, 20 students) DSC 593 Applied Project (3 credits, 18 students)
Fall 2013 (11 credits)	IND 590 Advanced ID Studio I (5 credits, 10 students) DSC 236 Intro to Computer Modeling (3 credits, 38 students) DSC 593 Applied Project (3 credits, 20 students)
Summer 2013 (9 credits)	DSC 236 Intro to Computer Modeling (3 credits, 5 students) IND 590 Foundation of Industrial Design Studio (6 credits, 4 students, co-taught with Joseph Velasquez)
Spring 2013 (14 credits)	IND 461 Design Project II (5 credits, 20 students) IND 598 Rapid Prototyping for Design (3 credits, 12 students) DSC 593 Applied Project (3 credits, 19 students) IND 499 Individualized Instruction (3 credits, 20 students)
Fall 2012	Sabbatical Leave
Summer 2012 (9 credits)	DSC 236 Intro to Computer Modeling (3 credits, 10 students) IND 590 Foundation of Industrial Design Studio (6 credits, 10 students, co-taught with Donald Herring)
Spring 2012 (14 credits)	IND 465/GRA 465/MGT 465 Collaborative Design II (5 credits, 36 students) IND 598 Design Visualization Techniques (3 credits, 12 students) DSC 593 Applied Project (3 credits, 11 students) DSC 599 Thesis (grade Y, 9 students) IND 499 Individualized Instruction (3 credits, 1 students)
Fall 2011 (16 credits)	IND 464/GRA 464/MGT 464 Collaborative Design I (5 credits, 36 students) IND 360 Industrial Design III (5 credits, 29 students) DSC 593 Applied Project (3 credits, 8 students) DSC 592 Research (3 credits, 4 students)
Spring 2011 (11 credits)	IND 461 Design Project II (5 credits, 19 students) IND 598 Digital Ideation & Rapid Prototype (3 credits, 13 students) DSC 593 Applied Project (3 credits, 8 students)
Fall 2010 (8 credits)	IND 360 Industrial Design III (5 credits, 27 students) DSC 236 Intro to Computer Modeling (3 credits, 30 students)
Spring 2010 (8 credits)	IND 461 Design Project II (5 credits, 19 students) IND 593 Applied Project (3 credits, 9 students)
Fall 2009 (11 credits)	IND 360 Industrial Design III (5 credits, 28 students) DSC 236 Intro to Computer Modeling (3 credits, 28 students) DSC 593 Applied Project (3 credits, 1 student)

Spring 2009 (11 credits)	IND 461 Design Project II (5 credits, 18 students) IND 598 Design Communication for New Product Development (3 credits, 10 students) IND 593 Applied Project (3 credits, 1 student)
Winter 2008 (3 credits)	IND 494/IND 598 Digital Rapid Visualization for Design (3 credits, 18 students)
Fall 2008 (8 credits)	IND 360 Industrial Design III (5 credits, 28 students) DSC 236 Intro to Computer Modeling (3 credits, 24 students)
Winter 2007 (3 credits)	IND 494/IND 598 Digital Rapid Visualization for Design (3 credits, 14 students)
Fall 2007 (6 credits)	IND 227 Visual Methods-Problem Solving (3 credits, 20 students) DSC 236 Intro to Computer Modeling (3 credits, 44 students)
Spring 2007 (14 credits)	IND 461 Design Project II (5 credits, 24 students) IND 328 Graphics for Industrial Design (3 credits, 24 students) DSC 593 Applied Project (3 credits, 1 student) IND 499 Individualized Instruction (3 credits, 1 student)
Fall 2006 (12 credits)	IND 227 Visual Methods-Problem Solving (3 credits, 20 students) DSC 236 Intro to Computer Modeling, Section B (3 credits, 35 students) DSC 236 Intro to Computer Modeling, Section C (3 credits, 24 students) DSC 593 Applied Project (3 credits, 1 student)
Spring 2006 (11 credits)	IND 461 Design Project II (5 credits, 24 students) IND 328 Graphics for Industrial Design (3 credits, 23 students) DSC 598 Digital Visualization (3 credits, 15 student)
Fall 2005 (9 credits)	IND 227 Visual Methods-Problem Solving (3 credits, 20 students) DSC 236 Intro to Computer Modeling, Section B (3 credits, 32 students) DSC 236 Intro to Computer Modeling, Section C (3 credits, 24 students)
Spring 2005 (8 credits)	IND 461 Design Project II (5 credits, 16 students) IND 328 Graphics for Industrial Design (3 credits, 24 students)
Fall 2004 (6 credits)	DSC 236 Intro to Computer Modeling, Section B (3 credits, 27 students) DSC 236 Intro to Computer Modeling, Section C (3 credits, 23 students)

THESIS COMMITTEE (MSD: *Master of Science in Design*)

	COMMITTEE CHAIR
Spring 2013 – Spring 2015	Zheng Wang, Master of Science in Design
Spring 2013 – Spring 2015	Yue, Huang, Master of Science in Design

Fall 2013 – Fall 2015	Chen, Hanwen, Master of Science in Design
Fall 2010 – Winter 2013	Shao Pan, Master of Science in Design
Fall 2010 – Winter 2013	Caiting Liu, Master of Science in Design
Fall 2010 – Summer 2012	Roozbeh Valamanesh, Master of Science in Design
Fall 2010 – Fall 2012	Qian Yang, Master of Science in Design
Fall 2010 – Fall 2012	Chakris Kussalanant, Master of Science in Design
Fall 2008 – Spring 2010	Michelle Chen, Master of Science in Design
Spring 2006 – Spring 2007	Kanak Patel, Master of Science in Design

COMMITTEE MEMBER

Fall 2016 – May 2017	Josiah Wong, Master of Science in Design
Spring 2016 – May 2017	Kelly Aaron, Master of Landscape Architecture, Texas Tech University
Fall 2013 – 2014	Wendy Wang, Master of Science in Design
Fall 2010 – 2012	Zheng Xu, Master of Science in Design
Fall 2010 – 2012	Chen, Hanwen, Master of Science in Design
Fall 2010 – 2012	Eddee Edson, Master of Science in Design
Fall 2009 – Fall 2010	Liqing Zhou, Master of Science in Design
Fall 2009 – Fall 2010	Qian Yang, Master of Science in Design
Spring 2009 – Spring 2010	Maral Charkhtab Tabrizi, Master of Science in Design
Fall 2008 – Spring 2010	Yuan-Shuo Hsieh, Master of Science in Design
Spring 2006 – Fall 2008	Selim Nurudeen, Master of Science in Design
Fall 2005 – Spring 2007	Christopher Grasso, Master of Science in Design
Spring 2005 – Spring 2007	Amol Surve, Master of Science in Design
Spring 2005 – Spring 2006	Ji-Ho Jung, Master of Science in Design
Fall 2004 – Spring 2005	Vidhyut Jani, Master of Science in Design

BARRETT HONORS THESIS DIRECTOR

Fall 2019 – Spring 2020	Jane Chen, Industrial Design
Fall 2019 – Spring 2020	Catharine Lewis, Industrial Design
Fall 2019 – Spring 2020	Erlend Meling, Industrial Design
Fall 2019 – Spring 2020	Anna Bodney, Industrial Design
Fall 2019 – Spring 2020	Audrey Mendez, Mechanical Engineering
Fall 2019 – Spring 2020	Tallee Klewicki, Industrial Design

Fall 2019 – Spring 2020	Isabel Fernald, Industrial Design
Fall 2019 – Spring 2020	Caralise Poole-Frazer, Industrial Design
Fall 2019	Clara Hall, Industrial Design
Fall 2019	Jeannie Kozicki, Industrial Design
Fall 2019	Jasmine Amoako-Agyei, Industrial Design
Fall 2018 – Spring 2019	Cara Beauvais, Mechanical Engineering
Fall 2018 – Spring 2019	Audrey Powell, Industrial Design & Design Management
Fall 2018 – Spring 2019	Grace Strasser, Industrial Design & Design Management
Fall 2014 – Spring 2015	Margaret (Margo) Marcinkowski, Industrial Design
Fall 2014 – Spring 2015	Brittany Herold, Industrial Design
Fall 2014 – Spring 2015	Tori Smith, Industrial Design
Fall 2014 – Spring 2015	Christian Shappee, Industrial Design

OTHER TEACHING ACTIVITIES

Summer 20012 – 2019

Instructor

Summer Design Primer, The Design School, ASU

(5 weeks summer design workshop, Monday-Friday, 9am-2pm)

This program was designed to help ASU's coming freshmen and local high school students explore and succeed in their design education in The Design School of ASU. The course introduced basic design skills such as: sketching, interpretation and organization of information, creative thinking, model construction, spatial thinking, Photoshop and InDesign, 3D CAD, and rapid prototyping. Each faculty from Architecture, Industrial Design, Interior Design, Landscape Architecture, and Visual Communication Design in The Design School taught the listed subjects for a week with the perspective of their discipline to the students. I taught Industrial Design week.

INTERNAL SERVICE AT ASU

Aug. 2016 – present	TDS Ad Hoc Facility Committee
Aug. 2016 – present	Industrial Design Barrett Honors Advisor and Faculty
Nov. 2015 – present	Biomimicry Educational Curriculum Committee
Aug. 2010 – present	TDS Technology Committee
Aug. 2011 – present	Industrial Design Undergraduate & Graduate Internship Coordinator
Aug. 2010 – present	TDS Personal Committee
Aug. 2004 – present	Industrial Design Milestone Portfolio Review Committee
Aug. 2004 – present	MID, MID3+, MSD (IND) Graduate Admission Committee
Aug. 2013 – present	Faculty Advisor for Student Organization (Lighthouse Campus Ministry)
Aug. 2017 – July 2019	New MS in Innovation and Venture Development Curriculum Committee
Aug. 2014 – May 2018	Head of Industrial Design Program
April. 2018 – Dec. 2018	Search Committee Chair for Director of Design Integration
Aug. 2014 – May 2018	TDS Executive Curriculum Committee
Aug. 2014 – May 2018	Master of Industrial Design Program Coordinator
Aug. 2011 – May 2018	MSD executive curriculum committee
Aug. 2011 – May 2018	TDS Scholarship Review Committee
Aug. 2014 – May. 2015	Search Committee Chair for a New Industrial Design Faculty
Oct. 2015 – May. 2016	Ad Hoc Design Research Committee
Aug. 2013 – May. 2016	Search Committee Chair for a New Industrial Design Faculty
Aug. 2011 – May 2014	IDSA Student Chapter Advisor
Aug. 2010 – May 2014	HIDA Digital Culture Curriculum Committee
Aug. 2011 – May 2012	Industrial Design Program Coordinator
Sep. 2009	Coordinator for a guest lecture

	<p>Coordinated a guest lecture with Syd Mead, futurist and designer (who did set design for such films as Blade Runner) and promoted the event. Invited local designers, artists and design students and faculty to the special presentation.</p>
Sep. 2009	<p>Coordinator for a guest lecture Contacted Mark Rodney, the application specialist at SolidThinking, Inc. (an Altair company) and coordinated a guest lecture for the introduction, demonstration and training of SolidThinking, a 3D parametric NURBS modeling program for ASU design students.</p>
July 2009	<p>Course developer Developing a new graduate course (New Product Innovation - applied project) with Prof. Prasad Boradkar.</p>
July 2009	<p>Workshop instructor Design workshop (digital design) and school tour for Korean American Youth Group, introducing ASU's industrial design program with Prof. Lauren McDermott, presentation with design case studies and sample work to introduce industrial design to the group.</p>
May 2009, 07, 06, 05	<p>Exhibition coordinator Coordinate Industrial Design Senior Graduate Exhibition, which includes advertising the exhibition, gallery layout, displaying presentation posters and appearance models, hosting local practitioners, alumni, faculty, staffs, students and parents to the opening reception.</p>
Jan. 2010 – May 2010	<p>Chair College of Design Computing Committee Schedule meetings and request with agenda and new business relating computing including software, hardware, service, policy and facility, review the purchase requests based on state and student budget.</p>
Sep. 2004 – May 2010	<p>Committee member College of Design Computing Committee Representative of the Industrial Design program.</p>
Aug. 2008 – July 2010	<p>Committee member Digital Culture Initiative Committee, College of Design / AME</p>
Mar. 2009	<p>Portfolio reviewer Review Industrial Design students' portfolio and provide professional feedback over the workshop hosted by IDSA Student Chapter. College of Design</p>
Fall 2008	<p>Faculty advisor Advised junior students for 2009 IHA (International Housewares</p>

- Association) 16th annual student design competition, Chicago, USA, 2009, won a third place ('Candu Trash Bin' by Vu Phan received \$1,300), an honorable mention ('Breeze' by Scott Reeves received \$250) and grants (\$425 for faculty advising) to school.
- Aug. 2008, 2009
Workshop co-instructor
Demonstration of digital sketching on Cintiq (digital tablet monitor) with diverse software applications for the first year Industrial Design students and their parents during the freshman orientation session.
- Apr. 2007
Design collaborator
Designed a trophy for the Hugh Downs Award for Communication Excellence with the Dean of College of Design (Wellington Reiter) and Professor Daniel Collins in School of Arts. CNN's Larry King received the award in 2007 and Steven Spielberg received it in 2008.
- Oct. 2006 / Sep. 2005
/ Nov. 2004
Co-organizer
2006 Industrial Design Studio Night
Created the event poster and organized the event along with Prof. Prasad Boradkar.
- Oct. 2006 / Apr. 2006
Workshop instructor
Sketching workshop for senior Industrial Design and InnovationSpace students. Conducted 3 hour sketching workshop and taught sketch layout, line weights, line types, marker techniques and other visualization tools and tips.
- Sep. 2005 – Feb. 2006
New Industrial Design faculty search committee
- May 2005
Workshop organizer and instructor
Adobe Photoshop Product Rendering Workshop
Organized the workshop and taught the process and techniques of 2D digital rendering to Industrial Design and Innovation Space students.
- May 2005
Workshop organizer and instructor
Computer Virtual Rendering (Flamingo 1.1) Workshop
Organized the workshop and taught Flamingo computer rendering software for Industrial Design and Innovation Space students.
- Apr. 2005
Workshop organizer and instructor
Sketch Workshop for junior Industrial Design students
Conducted 5 hours sketching workshop and taught sketch layout, line weights, line types, marker techniques and other visualization tools and tips.
- Mar. 2005
Coordinator for a guest lecture
Contacted the lecturer, Mark A. Schanze, PADT, Tempe, AZ and coordinated a special lecture for College of Design relating to

industrial design and rapid prototype with the topic of "RP in ID World."

Sep. 2004 – Feb. 2005

New Industrial Design faculty search committee

EXTERNAL SERVICE

2019 & 2020

IDSA Education Paper reviewer
Served to review research paper for the IDSA (Industrial Designers Society of America) Education Symposium, USA

2014 – present

International Scientific Review Board
Served to review research paper for the International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences

2012 – present

International Scientific Review Board
Served to review research paper for the International Conference on Engineering & Product Design Education (E&PDE), UK

Jan. 2008 – Present

Distinguished Advisory International Committee
Appointed and evaluated the research accomplishments and activities for the Brain Korea 21 Smart Home UID Research Group (Korea government design project), Inje University, South Korea

Nov 2017

External Promotion & Tenure Reviewer
The School of Industrial Design, Georgia Institute of Technology
Reviewed the Promotion & Tenure package and wrote a recommendation letter to the chair of personnel committee

Dec. 2015 – Dec. 2018

IDSA AZ Chapter Advisor

Summer 2015

External Promotion & Tenure Reviewer
Industrial Design, University of Illinois at Urbana-Champaign
Reviewed the Promotion & Tenure package and wrote a recommendation letter to the chair of personnel committee

Fall 2013

External Promotion & Tenure Reviewer
Industrial Design, North Carolina State University
Reviewed the Promotion & Tenure package and wrote a recommendation letter to the chair of personnel committee

Nov 2012

External Promotion & Tenure Reviewer (3rd year Critical Reviewer)
School of Industrial Design, Georgia Institute of Technology
Reviewed the Promotion & Tenure package and wrote a recommendation letter to the Dean

Dec. 2011 – Dec. 2015

IDSA Arizona chapter chair

	Managing chapter members, organizing chapter events and meetings, and attending national chapter/session/council meetings.
Mar. 2010	Design workshop co-instructor High School Design Workshop in conjunction with Prof. Prasad Boradkar exhibition (Rewind Remix Replay: Design, Music and Everyday Experience) at SMOCA Organized by Prof. Boradkar and SMOCA
Jan. 2009 – May 2009	Conference committee member 2009 IDSA Western District Conference, Santa Monica, CA, USA Conference programming, organizing and hosting.
Jan. 2009 – Nov. 2010	Representative AZ chapter for Young Professionals section of IDSA (Industrial Designers Society of America)
Aug. 2007 – Dec. 2009	Chapter chair IDSA (Industrial Designers Society of America) Arizona Chapter Managing chapter members and organizing chapter meeting as well as attending national chapter/session/council meetings.
Sep. 2008	Session chair 10th International Conference on Engineering and Product Design Education (E&PDE), Barcelona, Spain, Sep. 2008
May 2008 – Aug. 2008	Conference committee member 2008 IDSA National Conference & Education Symposium, Phoenix, AZ, USA Providing on-site information, students volunteers, materials and helping in conference organization.
Jan. 2008 – Apr. 2008	Conference committee member 2008 IDSA Western District Conference, Portland, OR, USA Conference programming, organizing and hosting.
Apr. 2006	Conference coordinator 2006 IDSA Western District Design Conference at Arizona State University Coordinate the exhibition with students' work; panel layout, displaying the presentation boards, appearance models, video projection and sponsors banners.
Feb. 2006 – Oct. 2007	Treasurer IDSA (Industrial Designers Society of America) Arizona Chapter Attending chapter meeting and responsible for keeping and reviewing the financial records of IDSA Arizona chapter.
Jan. 2006 – May 2006	Project co-leader

The partners of 2006 Coyote Crisis Campaign (CCC): City of Scottsdale, Scottsdale Health Care, Air National Guard, General Dynamics and ASU's Biodesign Institute

Leading project with Prof. Jennifer Brungart in the Dept. of Visual Communication Design, new product development for CCC emergency scenario, rapid prototyping, attending conferences and final CCC exercise at Scottsdale with other partners.

COMMUNITY SERVICE

Nov. 2019	YMCA Thanksgiving food baskets donation and delivery
Oct. 2019	Feed My Starving Children, Volunteered for food packing
Dec. 2018	Food Banks (Feeding America) at Salvation Army, Volunteered for food packing
Nov. 2018	YMCA Thanksgiving food baskets donation and delivery
Nov. 2018	St. Vincent de Paul, Volunteered helping homeless people at St. Vincent de Paul
Fall 2017	Coordinated collaborative project of 'Bus Stop Design 101' with the City of Phoenix Public Transit Department and Industrial Design of ASU
Dec. 2017	Food Banks (Feeding America) at Salvation Army, Volunteered for food sorting, packing and stacking food
Dec. 2016	Feed My Starving Children, a non-profit organization, Mesa, AZ, Volunteered for food packing