

# Sheng-Hung Lee

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Sheng-Hung Lee is a designer, engineer, and educator. He is inspired by multiple domains of knowledge and different perspectives, and he thrives on creating new value for clients on multi-disciplinary teams. He is trained as an industrial designer and electrical engineer, and his approach to problem solving is influenced by his passion for how design and technology impact and can be integrated into society. Lee has been focusing on organizational designs and education that create meaningful systemic impacts.

Education	2019–2022	<b>Massachusetts Institute of Technology</b> , USA MS, Integrated Design & Management + MS, Mechanical Engineering (GPA: 5.0 / 5) – Thesis: Human-Centered System Design Methodology and Application – Advisors: Olivier de Weck, Joseph F. Coughlin, Maria Yang, and Jonathan Chapman
	2006–2013	<b>National Cheng Kung University</b> , R.O.C. (Taiwan) BS, Industrial Design (GPA: 4.00 / 4) + BS, Electrical Engineering (GPA: 3.95 / 4)
Academic Experience	2019–2021	<b>MIT AgeLab</b>   Research Assistant and Designer – Project Smart Home for the Aging Population – Teaching Assistant (2020 Fall - 11.S941/11.S195 Global Aging: Planning Cities for a 100-Year Society)
	2020–2021	<b>MIT Idation Lab</b>   Designer – Team Lab Instructor (2020 Spring - 2.00 Introduction to Design) – Guest Reviewer (2021 Spring and 2020 Fall - 15.783/2.739 Product Design and Development)
	2019–2021	<b>MIT xPRO</b>   Research Assistant and Curriculum Experience Designer – Co-designed MIT xPRO Systems Thinking course and toolkit with Prof. Edward F. Crawley
	2021–2021	<b>MIT Office of Sustainability</b>   Safe and Sustainable Lab Fellow and Designer
	2015–2019	<b>Fudan University</b> , P.O.C. (China)   Adjunct Associate Professor – Outstanding Adjunct Professor Award, Shanghai Institute of Visual Arts, Fudan University (2018, 2017) – Teaching: Ergonomic (I), (II), (III), Graduation Project, Sustainable Design, and Design Methodology
Industry Experience	2015–2019	<b>IDEO</b>   Industrial Designer and Electrical Engineer
	2014–2015	<b>Continuum</b>   Industrial Designer and Design Strategist
	2012–2021	<b>Industrial Designers Society of America (IDSA)</b>   IDSA Award Committee and IDSA Boston Vice Chair
	2012–2019	<b>EMMA Creative Center Pforzheim</b> , Germany   Designers in Residence (Industrial Design) Scholarship Winner
Design Award Jury	2021	Australian Good Design Awards — Next Gen Category
	2020	Spark Design Award Jury — Design Concept and Student Category
	2020	International Design Awards Jury — Architectural, Interior, Product, Fashion and Graphics
	2019	LITE-ON Award Jury — Design Category
	2019	Ukrainian Design Award Jury — Industrial Design
	2018	International Design Excellence Awards (IDEA) Jury — Industrial Design
	2018	Red Star Design Award Jury — Product and Service Design
	2018	Golden Pin Design Award Jury — Product Design
	2017	A' Design Award & Competition Jury — Product and Industrial Design
Articles in Refereed Conference Proceedings	2021	<b>An Architecting Approach to Transformations within the Design Consulting Industry: IDEO Case Study</b> Sheng-Hung Lee, Wei-Ching Lin, John Rudnik, and Donna H. Rhodes In: <i>ICED21 and The Design Society — 23rd International Conference on Engineering Design: Design In Motion</i>
	2021	<b>The Inspiration Design Toolkit: A Human-Centered Design Tool for a System Engineering Course</b> Sheng-Hung Lee, Maria C. Yang, Beatriz Carramolino, and John Rudnik In: <i>The ASME 2021 Virtual International Design Engineering Technical Conferences &amp; Computers and Information in Engineering Conference — 18th International Conference on Design Education (DEC)</i>

	2021	<b>An Expert Interview Study of IoT Wearable Technologies for an Aging Population from Product, Data, and Society Dimensions</b> Sheng-Hung Lee, Ziyuan Zhu, Chaiwoo Lee, Fabio Duarte, and Joseph F. Coughlin In: <i>Human-Computer Interaction (HCI) International 2021</i>
	2020	<b>Experimenting with Design Thinking and System Engineering Methodologies: Using a Commercial Cislunar Space Development Project as an Example</b> Sheng-Hung Lee, John Liu, John Rudnik, Olivier L. de Weck, Joseph F. Coughlin, and Jonathan Chapman In: <i>IDSIA International Design Conference (IDC)</i>
	2020	<b>Apply Humanity-centered Design Process to Envision the Future Learning Experience of Public Area – Use “Redesign Shanghai Library Innovation Space Project” as an Example</b> Sheng-Hung Lee, John Rudnik, Lin Lin, Liangtie Tang, and Deming Zhou In: <i>Design Management Institute (DMI) – Academic Design Management Conference: Impact the Future by Design</i>
	2020	<b>Apply and Curate the Object-Process Methodology (OPM) and the Human-centered Design to Solve the Systemic Challenge – Use Campus Tour Experience Design as an Example</b> Sheng-Hung Lee, Chaiwoo Lee, John Rudnik, Chaiwoo Lee, Olivier L. de Weck, Joseph F. Coughlin, and Jonathan Chapman In: <i>Design Management Institute (DMI) – Academic Design Management Conference: Impact the Future by Design</i>
	2020	<b>An Exploration of the Creative Cognitive Process by Translating the Observation into the Early Stage of the Product Design Development – Apply the Experimental Project “Design Consciousness: Small Things with Big Heart” as an Example</b> Sheng-Hung Lee, John Rudnik, Tim Storti, and Almut Benkert In: <i>Design Management Institute (DMI) – Academic Design Management Conference: Impact the Future by Design</i>
Invited Talks and Lectures	2021	<b>Harvard xDesign: Constructing Reality</b>   Moderator In: <i>Harvard xDesign Conference, USA</i>
	2021	<b>Make ToGather: Interaction Design Webinar + Workshop</b>   Lecturer In: <i>Massachusetts Institute of Technology – Independent Activities Period (IAP), USA</i>
	2021	<b>Creative Problem-Solving: NEET (New Engineering Education Transformation) Way of Thinking</b>   Lecturer In: <i>Massachusetts Institute of Technology – Independent Activities Period (IAP), USA</i>
	2020	<b>Connecting the People</b>   Keynote Speaker In: <i>Rhode Island School of Design (RISD) Make-A-Thon: Connecting the Dots, USA</i>
Honors and Design Awards	2020	Core77 Design Award, Student Winner – Personal Accessory Award
	2020	DNA Paris Design Award, Winner – Experimental Design
	2020	Novum Design Award, Gold – Service Design + Design for Social Impact
	2018	European Product Design Award, Gold – Design for Sustainability
	2018	Spark Award, Gold – Experience
	2017	iF, Gold – Discipline Professional Concept
	2017	European Product Design Award, Gold – Design for Sustainability
	2016	IDEA, Gold – Environments
	2016	red dot Design Award, Winner – Habitat
	2016	James Dyson Award, National Winner (Taiwan) & International Top 20 Winner
	2016	A' Design Award & Competition, Silver – Sustainable Products, Projects and Green Design
	2016	International Design Awards, Gold – Design for Society, Sustainable Products
	2012	IDEA, Gold – Student Designs
	2012	Braun Prize, Special Mention – Student Designs
	2012	Fujitsu Semiconductor MCU Electronic Design Competition, Gold + Excellent Prize + Best Creative Award
	2011	red dot Award, Best of the Best – Design Concept
	2011	National Science Council, College Student Research Award
	2010	iF Award-winning Entries of the lebens(t)raeume Competition
Design Exhibitions	2020	Dubai Design Week Global Grad Show – Project: Fresh Tracker – A System for Smart Food Stocking
	2019	Cooper Hewitt Design Triennial – Project: TetraPOT 2.0
	2019	Cube Design Museum – Project: TetraPOT 2.0
	2018	Venice Design Week – Project: Shanghai Library Innovation Space
	2018	Shanghai Library – Project: Redesign Public Space
	2017	Shanghai Maker Carnival Exhibition – Project: Daily Innovation