Rapid Prototyping

April 30, 2020 11:00 am - 1:00 pm

11:00am - 12:00pm

Breaking down boundaries between the digital and the physical world
Neil Gershenfeld
Director, Center for Bits and Atoms

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Prof. Neil Gershenfeld is the Director of MIT's Center for Bits and Atoms, where his unique laboratory is breaking down boundaries between the digital and physical worlds, from pioneering quantum computing to digital fabrication to the Internet of Things. Technology from his lab has been seen and used in settings including New York's Museum of Modern Art and rural Indian villages, the White House and the World Economic Forum, inner-city community centers and automobile safety systems, Las Vegas shows and Sami herds. He is the author of numerous technical publications, patents, and books including *Designing Reality*, *Fab*, *When Things Start To Think*, *The Nature of Mathematical Modeling*, and *The Physics of Information Technology*, and has been featured in media such as The New York Times, The Economist, NPR, CNN, and PBS. He is a Fellow of the American Association for the Advancement of Science and the American Physical Society, has been named one of Scientific American's 50 leaders in science and technology, as one of 40 Modern-Day Leonardos by the Museum of Science and Industry, one of Popular Mechanic's 25 Makers, has been selected as a CNN/Time/Fortune Principal Voice, and by Prospect/Foreign Policy as one of the top 100 public intellectuals. He's been called the intellectual father of the maker movement, founding a growing global network of over two thousand fab labs in 125 countries that provide widespread access to prototype tools for personal fabrication, directing the Fab Academy for distributed research and education in the principles and practices of digital fabrication, and chairing the Fab Foundation. He is a co-founder of the Interspecies Internet and of the Science and Entertainment Exchange. Dr. Gershenfeld has a BA in Physics with High Honors from Swarthmore College, a Ph.D. in Applied Physics from Cornell University, honorary doctorates from Swarthmore College, Strathclyde University and the University of Antwerp, was a Junior Fellow of the Harvard University Society of Fellows, and a member of the research staff at Bell Labs.

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12:00pm - 1:00pm	Physical worlds to Self-Assembly a process Skylar Tibbits Assistant Professor of Design Research Co-Director and founder, Self-Assembly Lab Founder & Principal, SJET LLC MIT Department of Architecture Skylar Tibbits Assistant Professor of Design Research Co-Director and founder, Self-Assembly Lab Founder & Principal, SJET LLC MIT Department of Architecture

Skylar Tibbits is a co-director and founder of the Self-Assembly Lab housed at MIT's International Design Center. The Self-Assembly Lab focuses on self-assembly and programmable material technologies for novel manufacturing, products and construction processes.

Skylar is an Assistant Professor of Design Research in the Department of Architecture where he teaches graduate and undergraduate design studios and How to Make (Almost) Anything, a seminar at MIT's Media Lab with Neil Gershenfeld. Skylar was recently named R&D Magazine's 2015 Innovator of the Year, 2015 National Geographic Emerging Explorer, 2014 Inaugural WIRED Fellow, 2014 Gifted Citizen, 2013 Fast Company Innovation by Design Award, 2013 Architectural League Prize, The Next Idea Award at Ars Electronica 2013, Visionary Innovation Award at the Manufacturing Leadership Summit, 2012 TED Senior Fellow and was named a Revolutionary Mind in SEED Magazine's 2008 Design Issue.

Previously, he has worked at a number of renowned design offices including: Zaha Hadid Architects, Asymptote Architecture and Point b Design. He has designed and built large-scale installations at galleries around the world, has been published extensively in outlets such as the New York Times, Wired, Nature, Fast Company as well as various peer-reviewed journals and books.

Skylar has a Professional Degree in Architecture and minor in experimental computation from Philadelphia University. Continuing his education at MIT, he received a Master of Science in Design Computation and a Master of Science in Computer Science under the guidance of; Patrick Winston, Terry Knight, Erik Demaine and Neil Gershenfeld.

Initiated in 2007, Skylar Tibbits is also the founder and principal of a multidisciplinary design practice, SJET LLC.

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