# HUNMIN KOH

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## EDUCATION

**Massachusetts Institute of Technology**; Cambridge, MA — June 2018 (Expected)

Master of Science in Architectural Studies and Electrical Engineering and Computer Science

- Thesis Title : A Digital Archival Platform for East-Asian Geometric Patterns
- Thesis Advisor : Takehiko Nagakura (Architecture) and Erik Demaine (EECS)

**Korea Advanced Institute of Science and Technology**; Daejeon, South Korea — Jan 2009

Bachelor of Engineering | Mechanical Engineering

## ACADEMIC WORK EXPERIENCE

**Research Fellow for Mark Goulthorpe, MIT Architecture Department**; Cambridge, MA — Sep 2017 - Present

- MITei Energy Research Fellow for Automated Composite House Design

**Research Assistant for Federico Casalegno, MIT Design Lab**; Cambridge, MA — Feb - Aug 2017

- Designed, optimized and prototyped innovative sole designs for Puma's running shoes

**Research Assistant for Skylar Tibbits, Self Assembly Lab**; Cambridge, MA — Jun - Aug 2016

- Developed thermally adaptive material and micropatterns for Converse shoes.

**Teaching Assistant for Neil Gershenfeld**; Cambridge, MA — Sep - Dec 2016

- MAS.863 How to Make (Almost) Anything

## PROFESSIONAL WORK EXPERIENCE

**Fab Lab Project Manager, DRB International**; Seoul, South Korea — Jan - Aug 2015

- Implemented on operational strategy for a new 10,000 sqft fab lab.
- Developed a new modular design for 3D printed prosthetic hand.
- Led the first 7-axis robotic milling fabrication project in South Korea.

**Makerspace Consultant**; Seoul, South Korea — Aug 2012 - Dec 2014

- Founded the first fab lab in South Korea.
- Developed multiple fab lab hardware projects commissioned by National Science Museum.
  - Spheremill : DIY 3 Axis CNC milling machine for spherical object fabrication.
  - VLDP : Large size delta type 3D printer for artistic expression.
  - Standard Desk : Standardized CNC routed desk for Korean makerspaces.

**CAD Instructor, Korea International Cooperation Agency**; Matara, Sri Lanka — Mar 2009 - Sep 2011

(Alternative Service for Korean Mandatory Military Service)

- Proposed and executed $17,000 computer lab refurbishment project.
- Initiated 3D CAD software training program for students and local instructors.

## SKILLS

- **Fabrication**: 3D printing, CNC routing, CNC milling, waterjet and laser cutting, etc
- **CAD Software**: Solidworks, Rhino 3D, Grasshopper, AutoCAD, OpenSCAD
- **Simulation**: Abaqus
- **Programming Languages**: C#, Python, Javascript, Processing, D3
- **Embedded Systems**: Atmel AVR, Arduino, CadSoft Eagle PCB Design