

# Eurah Ko

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## Education

### Massachusetts Institute of Technology (MIT) — Cambridge, MA (Class of 2016)

B.S. in Mechanical Engineering with a Concentration in Product Design

Relevant Courses: Design and Manufacturing I, Design and Manufacturing II, Designing for People, Toy Product Design, Measurement & Instrumentation, Electronics for Mechanical Systems, Product Design, Elements of Mechanical Design, Product Engineering Process

GPA: 4.3/5.00

## Work Experience

### GenOne Technologies— Cambridge, MA (November 2016 — Present)

*Mechanical Engineer & Product Designer*

- Work with clients to help realize their ideas into manufactured products, ranging from medical devices to consumer products to IoT devices
- Design and implement prototypes of products at various stages of the product development process, including initial calculations, CAD, electrical systems design, user interface design, and physical prototyping
- Test and document the prototypes with each iteration of design

### Lemelson-MIT Program — Cambridge, MA (June 2016 — September 2016)

*Technical Advisor & Photographer*

- Helped to troubleshoot the technical aspects of engineering/invention curriculums for middle-school and high-school students
- Photographed images for the curriculums
- Researched candidates for the Lemelson-MIT Student prize, which seeks to award student innovators

### Precision Engineering Engineering Research Group — Cambridge, MA (June 2015 — August 2015)

*Undergraduate Researcher*

- Designed a weight measurement device for beekeepers that allowed them to measure hive weight without physically lifting hive

### Lemelson-MIT Program — Cambridge, MA (June 2014 — August 2014)

*Intern*

- Developed and designed engineering/invention curriculums for middle-school and high-school students
- Assisted with EurekaFest, Lemelson-MIT's yearly showcase of young inventors and their achievements

### MIT 2.S97: Designing for People — Cambridge, MA (January 2014)

*Mentor & Photographer*

- Assisted with various lessons relating to product design and general design
- Documented the class through photography

### MIT Freshman Pre-Orientation Program: Discover Product Design — Cambridge, MA (August 2013)

*Mentor*

- Introduced Incoming freshmen to the field of product design

- Executed poster and product concepts with graphic design tools and CAD software

## Leadership

### **MIT American Society of Mechanical Engineers (March 2013 — May 2015)**

#### *Activities Manager*

- Oversee and coordinate general events

#### *Treasurer*

- Manage the finances of the society

### **MIT Sport Pistol Club (March 2013 — Present)**

#### *Social Chair*

- Organize socializing events within the team

#### *Historian*

- Document the team's throughout the year through photography

### **Next Act (May 2013 — Present)**

#### *Art Director*

- Plan and execute the art direction for an annual student musical production

### **Next Big Thing (May 2014 — August 2014)**

- Designed a wooden "human hamster-wheel" 9 ft. in diameter and 6 ft. in depth, complying to MIT and Cambridge safety standards and building regulations
- Led over 30 people in construction and operation of the ride

## Skills and Awards

Languages: English (Native) and Korean (Native)

Software: SolidWorks, Matlab, Adobe Illustrator & Lightroom, Microsoft Office

Machine Shop Skills: CNC and manual machining, lasercutting, woodworking, 3D printing, rapid prototyping

Programming: Python, HTML & CSS

Electrical: microcontroller programming, basic circuit design, sensor and actuator implementation

Mobile Autonomous Systems Lab: Achieved "Most Creative Design Award" for designing a robot for a competition that could autonomously stack blocks based on color

Monstrous MechE: Achieved 1st place in the ASME event by building a "spooky" device (a simulation of a bandsaw accident)

Linguistics: Achieved 2nd place in the Korean Nationals; participated in the international competition as a national representative.

Activities: MIT Association of Taiwanese Students