

# YoungYoo Kim

Mechanical Design Engineer

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Philadelphia, PA

## EXPERIENCE

### Co-op

#### Design Engineer

9.2016 – 3.2017

Harbor Designs & Manufacturing

Baltimore, MD

Small/fast-paced product design company to help realize clients' ideas to products.

#### Role

- Mechanical design engineer for ISO 9001/13485 certified design & engineering company
- Design and develop products for consumer-electronics, transportation, defense industries, and biomedical products using Solidworks.
- Perform design analysis (DFMEA, ECO, FEA) and testing of multiple projects
- Design & build a camera prototype enclosure that houses optics, PCB, and a battery
- Design weather & tamper resistant enclosure prototype for an intrusion detection device currently installed nationwide at warehouse facilities of the largest online retailer in the US
- Design onboard information system mounting solutions for Caltrans Surfliner fleet
- Communicate with clients in regular meetings for project kickoff, design review, and delivery
- Collaborate with overseas manufacturing companies for prototyping and small to medium scale production

### Co-op

#### Automotive Engineer

9.2014 – 3.2015

Southco, Inc

Thornton, PA

Global headquarters of industry leading access hardware engineering company.

#### Role

- Create and revise legacy and new access hardware designs & drawings using NX.
- Assist in a prototyping a patented electromechanical marine latch mechanism
- Design assembly fixtures to improve manufacturing speed and lower physical strain of assemblers
- Collaborate with electrical engineering, NPD, testing, and tooling departments within the company
- Communicate with Southco's international manufacturing facilities in China and Mexico, engineering teams in UK, Germany

## EDUCATION

### Bachelor of Science in

#### Mechanical Engineering

Drexel University

6.2019

Philadelphia, PA

## Projects

- Drexel Senior Design – Micro air vehicle (< 500g) w/ pick and place capability assisted by an electromagnet. 3D printed chassis design/prototype using Solidworks. Chose various COTS items to meet specifications and competition criteria. Built a functional prototype as a team
- Seamless Laptop – Low power laptop enclosure design/prototype. DaaS/IoT prototyping platform
- Furniture Design – Stool, shelf, table, and lighting designs using Solidworks and 3D printer
- Ornithopter – Insect flight stabilization function demo mechanism design/build using Solidworks

## TECHNICAL SKILLS

Design Tools: SOLIDWORKS, NX(UG), Creo, AutoCAD, Inventor, LabVIEW, MATLAB

Design Capability: DFM, DFX, FEA, CAD, CAM, Plastic injection molding, 3D Printing, Laser cutting, Sheet metal, CNC Machining/Lathe, Vertical 3-axis mill

Language: Fluent in Korean and English