

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

- 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
- Mechanical design engineer for ISO 9001/13485 certified design & engineering company
- Design & build a prototype enclosure that houses optics, PCB, and a battery
- Design weather & tamper resistant enclosure for a detection device to be installed in 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 product designs, drawings – using NX.
- Assist in a developing prototype of 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, Autodesk

AutoCAD/Inventor/Moldflow, LabVIEW, MATLAB

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

Language: Fluent in Korean and English