

## Young Yoo Kim

Mechanical Engineer | Product Design Engineer

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**United States Citizen** 

#### **Drexel University** Philadelphia, PA

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Bachelor of Science in Mechanical Engineering

Harbor Designs and Manufacturing Baltimore, MD		Sep.2016 – Mar.2017
	Design and develop products for consumer electronics, transportation, defense	
Design Engineer	industries and biomedical products using Solidworks. Create renders & prototypes,	
Co-op	conduct various design analysis (FEA, mold flow, etc.) and testing of multiple	
	projects at a small, fast-paced design & manufacturing company	

- Mechanical design engineer co-op for ISO 9001 and 13485 certified design & engineering company
- Designed an enclosure prototype that houses optics, PCB, and a battery
- Designed weather & tamper resistant enclosure for a detection device to be installed in warehouse facilities of the largest online retailer in the US
- Designed onboard information system mounting solutions for Caltrans Surfliner fleet
- Engineered assembly fixtures and tool attachments to optimize manufacturing processes
- Communicated with clients in regular meetings for project kickoff, design review, and delivery
- Collaborated with overseas manufacturing companies for prototyping and mass production

# Automotive Engineer Co-op Create and revise product designs, drawings – using NX. Assist senior engineers and project managers in various engineering and managerial tasks at the global headquarter of industry leading access hardware engineering firm

- Researched and developed prototypes of a patented electromechanical marine latch mechanism
- Designed assembly fixtures to improve manufacturing speed and lower physical strain of assemblers
- Presented conceptual design to one of the US's Big Three companies under NDA for a competition
- Collaborated with electrical engineering, NPD, testing, and tooling departments within the company
- Communicated with international Southco manufacturing facilities in China and Mexico regularly

### Projects personal projects & group projects

- Drexel Senior Design Micro Air Vehicle w/ pick up and place capability. Chassis design/prototyping
- 4R Robotic Arm Pick and place capable 4R dual linkage robot arm powered by Arduino
- Seamless Laptop Low power laptop enclosure design. IoT prototyping platform with modularity
- Furniture Design Stool, shelf, table, and light fixture designs
- Two Wing Ornithopter Insect haltere function demo mechanism design/prototyping
- System Builder Over 50 custom office, medical, CAD personal computer builds
- Web Design Portfolio website and Vision Care USA (visioncareusa.org) website design

### **Technical Skills**

- Engineering Tools Solidworks, NX, Creo, LabVIEW, MATLAB, Autodesk AutoCAD/Inventor/Moldflow
- Design Capability FEA, DFM, CAD/CAM, Plastic injection molding, 3D Printing, Laser cutting, Sheet metal, CNC Machining/Lathe
- Operating Systems Windows 7, Windows 10, macOS, iOS, Android
- Utilities Microsoft Office Suite, G Suite, Adobe Creative Suite (Ps, Lr, Ai, Id), CURA
- Web Design HTML, CSS, JavaScript, Brackets, GitKraken, Github, Google Analytics

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