



**Young Yoo Kim** B.S. Mechanical Engineering 2019

Mechanical Engineer | Design Engineer | Product Designer

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**United States Citizen**

**Drexel University** | Philadelphia, PA  
Bachelor of Science in Mechanical Engineering – June.2019

**Harbor Designs & Manufacturing** | Baltimore, MD  
6-Month Co-op from Sep.2016 to Mar.2017

**Design Engineer** // Design and develop consumer electronics, transportation, defense industries and biomedical products using Solidworks. Create renders & prototypes, perform various design analysis of multiple projects at a small, fast-paced design & manufacturing company

- Mechanical design engineer and industrial designer co-op for ISO 9001 and 13485 certified design & engineering company
- Designed & developed camera enclosure prototype for the defense industry
- Designed weather & tamper resistant enclosure for an intrusion detection device to be installed in warehouse facilities of the largest internet retailer in the US
- Designed onboard information system mounting solutions for Caltrans Surfliner train fleet
- Communicated with clients in regular meetings for project kickoff, design review, and delivery
- Communicated with overseas manufacturing companies for prototyping and mass production

**Southco, Inc** | Concordville, PA  
6-Month Co-op from Sep.2014 to Mar.2015

**Automotive Engineer** // 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

**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. Budget IoT prototyping platform with modularity
- AP Enclosure – Remote computer access point enclosure concepts
- Furniture Design – Stool, shelf, table, and light fixture designs inspired by a Japanese Sci-Fi series
- Microscope Stand – Portable ophthalmic surgical microscope stand concept with built in battery
- Drexel Junior Design – Two winged ornithopter with haltere function demo. Mechanism design/prototyping
- System Builder – Over 50 custom office, medical, CAD computer builds
- Web Design – Portfolio website (youngyookim.com) and Vision Care USA (visioncareusa.org) website design

**Technical Skills** //

Core

- Design Tools – Solidworks, NX, PTC Creo, Autodesk AutoCAD/Fusion360/Inventor/Moldflow, LabVIEW, MATLAB
- Design Capability – Plastic injection molding, 3D Printing, Laser cutting, Sheet metal, CNC Machining/Lathe

Essential

- 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