

# SARAH ANGLE

SarahAngleEngineer@gmail.com | 845.337.2683 | sarahangle.github.io

Experience	<b>Product Design Mechanical Engineer</b> Cisco Meraki <ul style="list-style-type: none"><li>Responsible for mechanical design on multiple products, including wireless access points, mounting accessories, and network switches. Successfully launched products selling in the hundreds of thousands per year.</li><li>Tested product user experience to create simple and functional devices that were intuitive to use.</li><li>Evaluated ID aesthetics and feasibility with internal and external ID teams. Translated ID concepts into CAD models and surfaces.</li><li>Developed mechanical architecture with electrical, thermal, and antenna teams to ensure designs met all product requirements. Managed ME BOM to meet cost targets.</li><li>Directed teams of ODM mechanical engineers to complete CAD drawings and tolerance analysis.</li><li>Designed parts and assemblies according to manufacturing best practice. Worked with vendors in Asia (Taiwan and China) to ensure proper DFM and DFA.</li><li>Oversaw manufacturing and assembly to review processes and completed parts. Reviewed with vendors to improve part defects, tooling issues, and assembly procedures.</li><li>Communicated heavily with manufacturers to meet product development schedule.</li></ul>	<b>May 2017 - Present</b>
	<b>Mechanical Engineer</b> Fitbit Advanced Product Development <ul style="list-style-type: none"><li>Worked on the Advanced PD team to integrate new materials technology into future Fitbit products.</li><li>As the mechanical lead for the Smart/Advanced Materials research groups, responsible for all CAD models (including sketches and surfacing), prototypes, &amp; production tools.</li><li>Collaborated with and visited overseas suppliers for DFM feedback on designs prior to tool kickoff.</li><li>Adapted parts originally designed for traditional manufacturing methods, like injection molding, CNC, and forging, to be made with more advanced material technologies, like MIM, composites, smart materials/electronics, and premium metals.</li></ul>	<b>July 2016 - April 2017</b>
	<b>Mechanical Engineering Intern</b> Autodesk Office of the CTO <ul style="list-style-type: none"><li>Researched effectiveness of CAD software from design to build by imagining and making a product.</li><li>Created customized orthotic glove actuated via servo-motor to improve dexterity and muscle memory for people with disabilities or learning new tasks.</li><li>Designed mechanical architecture and components of robotic glove.</li><li>Implemented electrical and software system to understand input commands and control motors.</li><li>Used tools including 3D printers and scanners, 5 axis CNC mills, and an electronics lab.</li></ul>	<b>June - August 2015</b>
Education	<b>B.S. Mechanical Engineering</b> Cornell University <ul style="list-style-type: none"><li>GPA: 3.97/4.3</li></ul>	<b>Graduated May 2016</b>
Skills	<b>Design Tools:</b> PTC Creo, SolidWorks, Fusion360, Inventor, AutoCAD, GD&T, ANSYS, LabVIEW <b>Design For:</b> Injection Molding, Sheet Metal, Die-Casting, MIM, Forging, CNC Machining, Composites <b>Prototyping:</b> 3D Printer (Objet, Ember, etc.), Laser Cutter, CNC Mill, Hand Lathe and Mill <b>Programming:</b> C, Java, Python, Ruby, Racket, SQL, MATLAB, Arduino, ROS	
Interests	Rock Climbing, Backcountry Skiing, Ultimate Frisbee, Backpacking, Biking, Live Music	