

SARAH ANGLE

SarahAngleEngineer@gmail.com

Education	B.S. Mechanical Engineering Cornell University <ul style="list-style-type: none">Graduated Magna Cum Laude, with GPA of 3.97/4.00.Named to Dean's List all semesters.	Graduated May 2016
Experience	Mechanical Engineer Fitbit Advanced Product Development <ul style="list-style-type: none">Worked on the Advanced Product Development team to integrate new materials and technologies into future Fitbit products.As the mechanical engineering lead for the Smart Materials and Advanced Materials research groups, responsible for development of all tooling and prototyping.Coordinated with ID and Marketing to create new products that fit customers' needs.Collaborated with and visited overseas suppliers for DFM feedback on designs prior to tool kickoff.Designed products using traditional manufacturing methods, like forging, injection molding, and machining, and more advanced material technologies, like MIM, composites, smart materials/electronics, and premium metals.	July 2016 - Present
	Mechanical Engineering Intern Autodesk Office of the CTO <ul style="list-style-type: none">Researched effectiveness of CAD software from design to build by imagining and making a product.Created customized orthotic glove actuated via servo-motor to improve dexterity and muscle memory for people with disabilities or learning new tasks.Designed mechanical architecture and components of robotic glove.Implemented electrical and software system to understand input commands and control motors.Used tools including 3D printers and scanners, 5 axis CNC mills, and an electronics lab.Presented findings on software functionality directly to product teams and CEO.	June - August 2015
	Undergraduate Researcher Cornell Creative Machines Lab <ul style="list-style-type: none">Collaborated with Professor Hod Lipson and his group to design the first 3D printable actuators.Built experiment system and testing apparatus to measure and demonstrate properties of a new material.Published a paper on findings in <i>Advanced Engineering Materials</i>.	January 2014 - May 2015
	Engineering Intern Columbia Gas of Massachusetts <ul style="list-style-type: none">Worked to replace aging utility infrastructure, assisting team of 8 engineers in designing projects with a total budget of \$17 million.Created project plans for field construction, including maps and required materials.Wrote construction procedures that allowed work to be done on live gas mains.	June - August 2014
Skills	Design Software: PTC Creo, SolidWorks, Fusion360, Inventor, AutoCAD, ANSYS, LabVIEW Design For: Injection & Compression Molding, MIM, Forging, Die-Casting, CNC Machining, Composite Layup, Rapid Prototyping, Laser Cutting Programming: MATLAB, C, Java, Python, Arduino, ROS Manufacturing: 3D Printer (Objet, Ember, etc.), Laser Cutter, CNC Mill, Hand Lathe and Mill	
Interests	Ultimate Frisbee, Backpacking, Road Biking, Rock Climbing, Backcountry Skiing, Live Music, Guitar	