

ELIZABETH BIANCHINI

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Mechanical Engineering
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EDUCATION

Massachusetts Institute of Technology , Cambridge, MA	Class of 2018
Bachelor of Science in Mechanical Engineering, 4.9/5.0 GPA	
Carnegie Mellon University , Pittsburgh, PA	2012-2014
15 Credits in Mechanical Engineering, Physics, Design, Computer Science	

WORK EXPERIENCE

Uber Advanced Technologies Group , Pittsburgh, PA	June-Sept. 2017
Hardware Engineering Intern	
- Identified consequences of dissimilarities in simulation vs. real-world data accumulation	
- Analyzed four methods of simulation against real-world data to inform simulation software development	
- Planned and executed testing to stress specific autonomous features on the test track	
Fitbit, Inc. , San Francisco, CA	June-Aug. 2016
Mechanical Engineering Intern	
- Contributed to the mechanical feature set and design of a future product	
- Ran internal meetings to balance electro-mechanical constraints with user experience	
- Oversaw the manufacturing of an injection-molded part in a Shenzhen, China factory	
Carnegie Robotics, LLC , Pittsburgh, PA	June-Aug. 2014 + 2015
Mechanical Engineering Intern	
- Generated 3D point cloud maps of city infrastructure for a confidential project	
- Wrote data collection and analysis programs to quantify laser scanner performance	
MIT Stress Line Additive Manufacturing Project , Cambridge, MA	Sept.-Dec. 2014
Undergraduate Researcher	
- Discovered a robust way to deposit material in response to 3D flow of forces in beams	
- Fabricated a material extruder to lay filament from a six-axis robotic arm	

LEADERSHIP AND ACTIVITIES

MIT 2.009 The Product Engineering Process , Cambridge, MA	Fall 2017
Team Systems Integrator	
- Led a team of 20 of my peer senior students through the design process	
- Developed + patented a product to help masons remove mortar between bricks	
- Presented our team product at the 2.009 product launch in front of a crowd of 1500	
MIT Design For America (DFA) , Cambridge, MA	2015-Present
President, Project Director, Corporate Relations Director + Technical Mentor	
- Led the chapter by organizing logistics and resources and emphasizing team dynamic	
- Recruited and provided resources for 8 project teams to tackle real-world design problems in the local community	
- Established a sustainable budget through long-term company sponsorships	
MIT TechX , Cambridge, MA	2014-2016
MakeMIT 2016 Event Director	
- Organized annual bi-weekend hardware hackathon for 250+ undergraduates	
- Contacted and negotiated with corporate representatives to secure sponsor funding	
MIT Robotics Team , Cambridge, MA	2014-2016
Executive Mechanical Engineer	
- Presented team rovers at international GITEX conference in Dubai	
- Designed and machined rover for NASA Sample Return Centennial Challenge	

TECHNICAL SKILLS

Hardware — TIG Welding, Mill, Lathe, Plasma Cutter, 3D Printing, Soldering, Water Jet, Laser Cutter, Thermoform
Software — Python, MATLAB, Linux, Bash, ROS, SolidWorks, Creo, Onshape, Fusion 360, Adobe Creative Suite