

ELIZABETH BIANCHINI

EDUCATION

Mechanical Engineering
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Stanford University, Stanford, CA

Master of Science in Mechanical Engineering

Massachusetts Institute of Technology, Cambridge, MA

Bachelor of Science in Mechanical Engineering, 4.9/5.0 GPA

Expected 2020

Class of 2018

WORK EXPERIENCE

Rhino Tools and Equipment, Cambridge, MA

September 2017-Present

Chief Executive Officer

- Incorporated with three co-founders from my team in our capstone class 2.009 The Product Engineering Process
- Developed + patented a product to help masons remove mortar between bricks
- Coordinated a pilot program for a small scale production run of units to be used on a brick repointing project in Cambridge, MA

Uber Advanced Technologies Group, Pittsburgh, PA

June-Sept. 2017

Hardware Engineering Intern

- Analyzed and identified consequences of dissimilarities of 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 Design For America (DFA), Cambridge, MA

2015-2018

President, Project Director, Corporate Relations Director + Technical Mentor

- Led the chapter by devising and coordinating annual project and committee timelines
- 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, HSMWorks