

Isobel Bohmer

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EDUCATION

Tufts University, Medford MA

BS in Mechanical Engineering

SEPTEMBER 2017 - MAY 2021

GPA 3.68 (Expected May 2021)

King's College London Summer School, 3D Printing, summer 2019

Queen Mary University of London Semester abroad, spring 2020

The American School in London, London UK

AUGUST 2011 - JUNE 2016

- National Honors Society, AP Scholar with Distinction, UK Mathematics Trust Silver Medal

EXPERIENCE

Insulet Corporation, Acton MA — Summer Intern, R and D

JUNE - AUGUST 2020

- Designed non-contact sensor solutions for biomedical applications on a multidisciplinary team
- Sole lead on testing fixture creation: designed setup, made CAD and technical drawings in Solidworks, managed machining process, coordinated with commercial machining specialists, published comprehensive user documentation

Nolop FAST Facility, Tufts University — Makerspace Supervisor and Fabrication Specialist

JUNE 2019 - PRESENT

- Designed and led workshops instructing use of fabrication machinery, taught in person and remotely
- Fabricated parts utilising a range of techniques when running as a job shop (see Skills: Fabrication)

Intriligator's Soft Robotics Lab, Tufts University — Undergraduate Researcher, Exosuit project, Mechanics team

MAY 2019 - DECEMBER 2019

- Designed soft robotics elements; developed fabrication techniques
- Interfaced mechanical and electronic components across teams

Torn Ticket II, Tufts University — Production Manager

MAY 2020 - PRESENT

- Executive Board Member of student run musical theatre group
- Recruited and managed production staff; coordinated production staff, director, and performers; ran technical rehearsals

SKILLS

Fabrication: Expertise in 3D Printing, Laser Cutting, and Soldering, Extensive experience with power tools including Table Saw, Mitre Saw, Bandsaw

Software: Expertise in Solidworks, Onshape, and Microsoft Office Suite, Extensive experience with Visual Studio Code, LabVIEW, Terminal, ITK-SNAP, KiCad

Programming Languages: Expertise in MATLAB, Experience in Python and C++

Languages: Native English, Proficient Spanish

PROJECTS

Sensor Testing Fixture: Designed and built to test capacitive sensor configurations

Passive Leg Exerciser: Designed exercise device for paraplegic users

Tetrapod: Created robot to traverse obstacle course

Motor Driver PCB: Designed and fabricated H-Bridge circuit board

QUALIFICATIONS

Emergency Medical Technician, Nationally registered and certified in in Massachusetts

INTERESTS

Robotics Club, Tufts Chamber Singers, co-founder of Battersea Book Club, Theatre (viewing and production), Skiing, Hiking, Film photography

CITIZENSHIPS

USA, UK, New Zealand