

# ISAAC FLUHR-CHAPMAN

isaacfc4@bu.edu

www.isaacfc4.github.io

817.701.9037

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## **EDUCATION:**

**Boston University, College of Engineering**

Anticipated Graduation: May 2022

*Bachelors of Science Candidate, Computer Engineering*

Relevant Classes: Calculus II, III, Programming for Engineers (MATLAB, C), Chemistry for Engineers, Physics I/II, Linear Algebra, Engineering Design, Solar System, ENG Robotics, Static Mechanics, Circuits, Diff Eq

## **TECHNOLOGICAL PROFICIENCY:**

- C, Python, Matlab, Java
- CAM/CAD, Solidworks
- Drawing and Product Design
- Soldering/Circuitry
- Microsoft Office
- Manufacturing
- Wiring
- Arduino
- Technical Writing

## **PROJECTS:**

**Lead Designer & Programmer - Live-Cell Imaging Equipment**

Oct 2019 - Dec 2019

- Led a team of engineers from design to production of a device that creates a temperature regulated environment for the imaging of live-cells in a 96 well plate.
- Underwent a PDR, CDR, and formal engineering report to provide progress to client.
- Utilized Arduino and small electronic components to create thermistor-based control system.
- Utilized 3D modeling, GibbsCAM, and shop machinery to fabricate product components.

**Co-Founder - Boston University Robotics and Ambient Intelligence Labs**

Aug 2019 - Present

- Founded club designed to make robotics and AI applications more accessible to the Boston University community and surrounding schools.
- Organization competes in XPrize and RoboCup competitions.
- Direct outreach and human relations to club members and prospects and design of products.

**Co-Manufacturer - Boston University Rocket Propulsion Group**

Sep 2018 - Dec 2018

- System designed to analyze pressure change across an orifice.
- Tested stand for Gas-Gas rocket engines capable of swiveling, throttling, and other systems.
- Strategized and designed system to store and transmit telemetry including altitude and temperature from a model rocket to radio receiver on the ground.

## **WORK EXPERIENCE:**

**Lab Assistant - Boston University Electrical Engineering Department**

Sept 2019 - Dec 2019

Boston, MA

- Maintain and oversee three labs belonging to the Electrical Engineering department
- Deploy and image/re-image lab technology, diagnose and repair equipment

**Robotics Instructor - iD Tech Camps**

May 2019 - August 2019

Boston, MA

- Taught and supervised children ranging from 7 to 17 in the design and assembly of robotics.
- Taught Python and C++ across multiple platforms including Vex Robotics, Sphero BOLT, and Cozmo robotics.

**Front Desk - Boston Sports Club**

Nov 2018 - May 2019

Boston, MA

- Checked in gym members, provided customer service both in person and on the phone, transfer calls to higher management, and provide customer service.