

# Jordyn Brosemer

jbrosemer.com

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## Education

**TUFTS UNIVERSITY** – Medford MA

MS in Electrical Engineering:

Human Robot Interaction

Expected Degree: Dec 2022

- Cum GPA: 3.56 / 4.00

**LAFAYETTE COLLEGE** – Easton PA

BS in Electrical Computer Engineering

Graduated May 2020

## Coursework

- Advanced Robotics
- Probabilistic Robotics
- Embedded Systems
- Software Engineering
- Digital Signal Processing
- Data Structures & Algorithms
- Control Systems
- Power Electronics
- Communication Networks
- Convex Optimization

## Skills

*Proficient:*

Java • MATLAB • C++ • Python • HTML/CSS  
Auto CAD • Inventor • Photoshop

*Familiar:*

SPICE • System Verilog • C • Solidworks

*Tools/Soft Skills/Workflows:*

Git • Project Management • Docker

## Organizations

2017 – 2020 | **WJRH College Radio Engineer**

2019 – 2020 | **Lafayette College Motorsports**

2017 – Present | **IEEE Member**

## Links

LinkedIn: @jbrosemer

Github: @jbrosemer

Website: www.jbrosemer.com

## Experience

**LOCKHEED MARTIN** | College Student Technical Intern

May 2022 – Dec 2022 | Stratford, CT

- Robotics intern on the blades team integrating machine vision and infrared thermography technologies with UR16e robot to automate helicopter blade inspection.
- UR16 movements programmed with teach pendant, machine vision implemented in Python and MatLab.

**SAE FORMULA HYBRID** | Team Captain

Aug 2019 – May 2020 | Lafayette College, Easton PA

- Nominated and accepted Project Manager role responsible for coordinating development among team of 25 undergraduate Electrical, Mechanical, and Software engineers.
- Ran organizational meetings and tracked project schedule. Self-taught PCB & CAD design while enhancing interpersonal, oratory, time management and technical skills.

**BRANDMUSCLE** | Technology Engineering Intern

- Reported to Lead Enterprise Architect. Containerized over a dozen Windows web applications that were pushed into production environment using C#, Visual Studio, and Docker.

## Projects

**BRACHIATING ROBOT** | Python – Solidworks

- Lead software/hardware designer for final project in Advanced Robotics - a robot that hangs and swings from “branch to branch” of a horizontal ladder. Wrote Python routines that autonomously detect branches and perform autonomous movement by controlling/coordinating robot’s 12 individual motorized joints.

**ATLAS THE CATCH AND THROW ROBOT** | Python – Solidworks

- Principal hardware / software designer / implementer for robot that catches and throws tennis balls upon recognition of human faces. Designed / coded Python routines to throw ball, rotate robot, and detect human faces. Implemented finite state machine that automates entire operation.

**INGREDIENT DISPENSER** | C/C++ – Autodesk Inventor

- As a final project for Embedded Systems, designed, constructed, coded in C++ automated system that dispenses specific amounts/weights of dry/granular/powdered ingredients.
- Developed user interface using UART command window.
- Used CAD and 3D printing technologies to manufacture mechanical enclosure from wood and 3D printed transmission/gears that dispensed ingredients under software control.