

# Jack Amsbry

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📍 Boston, MA

## Education

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- Tufts University, MS in Mechanical Engineering 📍 Medford, MA 📅 Expected December 2021
- Tufts University, BS in Mechanical Engineering 📍 Medford, MA 📅 May 2020
- GPA: 3.03
  - Dean's List: 3 Semesters

## Work Experience

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- Tufts University 📍 Medford, MA 📅 January 2021 - Present
- Research Assistant
- Directed a team of undergraduates in the design of PCBs with implanted hardware trojans
  - Identified potential hardware trojan insertion points on existing Arduino PCBs
  - Designed and modified 2 and 4-layer PCBs for research in thermal detection of PCB hardware trojans
- Corvus Robotics 📍 Somerville, MA 📅 October 2019 - March 2020
- Mechanical Design Intern
- Machined 80/20 extrusions to specifications within 5 mils
  - Manufactured landing pad for indoor drone applications
- FreshZen Foods 📍 Boston, MA 📅 September 2019 - December 2019
- Marketing Consultant
- Led a team of student marketing consultants in creating investment deck and branding for an upcoming product
  - Devised a marketing strategy for the launch of an upcoming product
- Flying A Media 📍 Pasadena, CA 📅 June 2016 – September 2019
- IT Consultant
- Solved technical problems in the office daily
  - Procured and configured all business and account-related equipment

## Leadership and Community Involvement

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- WMFO Tufts Community Radio 📅 September 2016 - March 2020
- Created and performed a weekly radio show broadcasted throughout the Boston area
- Research Assistant 📅 September 2018 - December 2018
- Constructed an on-campus laboratory for use in thermal manufacturing research
  - Conducted experiments using high-speed cameras to analyze liquid metal cooling cycles
- Tufts University Television 📅 September 2017 - February 2018
- Produced and directed an original program uploaded on the Tufts University Television YouTube channel
- Eagle Scout 📅 September 2015
- Organized a fundraiser and book drive for the non-profit Reading Partners, supporting local elementary schools
  - Oversaw a large team of Boy Scouts in building multiple bookshelves for a Reading Partners location in Pasadena, CA

## Skills

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### Proficient

- SolidWorks
- KICAD
- MATLAB
- LabVIEW
- Python
- Microsoft Office Suite

### Intermediate

- GD & T
- Finite Element Analysis
- C++
- C