Michael R. Comstock

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P.O. Box 631
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Objective	To obtain full time employment following graduation in May 2021 involving iterative engineering design and development within the disciplines of Mechanical Engineering and Computer Hardware

Education

Rensselaer Polytechnic Institute (RPI), Troy, NY — May 2021
B.S. Mechanical Engineering — **GPA:** 3.59/4.00
B.S. Computer & Systems Engineering

Experience

Boeing Commercial Airplanes — Summer 2020
Flight Test Engineering Intern

- Utilized Matlab to compile data for a collaboration solution, improving the ease of data sharing among project groups by connecting them with similar teams across the enterprise
- Created and developed documentation and test plans to be performed in future testing of the 777X
- Practiced principles of Agile Scrum, Design-Thinking, and Systems Engineering; presenting findings from interviews to management and brainstorming possible solutions on a 2-week sprint interval
- Reviewed flight test documentation for implementation and execution in the testing phase of the 777X
- Conducted over 40 interviews with key stakeholders in the project to identify needs and organize responses into functional and non-functional requirements for further development

Escape Velocity Inc — Summer 2017
Intern/Front End Developer

- Created initial framework for reporting and data import application using Typescript and Angular.io
- Designed user experience for reporting and collaborated on designing REST interfaces for the overall application

Leadership and Activities

RPI Forge — Fall 2018-Present
Vice President

- Organizing vision and planning for Rensselaer's Student-Run Makerspace
- Currently overseeing and scheduling a team of approximately 50 volunteers hosting open hours
- Part of initiative to expand membership and outreach resulting in a two-fold increase in member base and vastly expanded outreach
- Organized and ran events to showcase rapid manufacturing technologies to thousands in the Capital District and beyond
- Interfaced with local businesses and department heads to facilitate student competitions

Habitat for Humanity, Wake County, NC — Summer 2019

- Over 100 volunteer hours learning home construction and finish carpentry

Skills

- **Software:** NX 11/12, Matlab, STM32Cube, LTSpice, Mastercam, Vivado, Eclipse, SiLabs, Photoshop, Adobe Premiere Pro, and Microsoft Office
- **Tools:** 3D Printer, CO_2 laser cutter, Vertical Miller, Lathe, 3D Scanner, and Vinyl Cutter
- **Programming Languages:**
  Proficient in: Matlab, Java, C/C++, Go, and Typescript
  Familiar with: Swift, HTML/CSS, Javascript, and MySQL

Patents

Co-inventor Pending US Patent application (Publication #20180154933) for Robotic Platform with Wheeled Legs and Virtual Differential Transmission.