

# Jack Abrain

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## EXPERIENCE

### **Waterrower Incorporated, Warren RI** — *Engineering Intern*

May 2019 - September 2021

- Helped in designing a new soft close mechanism for the new CityRow Max rower
- Designed new drilling jigs/fixtures for the assembly line
- Designed a wire insertion tool for technicians in the field
- Learned how to machine on milling machines and lathes
- Gained a substantial amount of knowledge in solidworks, G-Code, and CNC softwares
- Gained substantial experience by taking design from concept, to 3D model, to actually machining it myself.
- Worked with resin based 3D printers
- Created new SOP's for factory assembly line
- Helped improve woodshop efficiency and flow
- Processed returns, diagnosed problems, fixed faults

### **Magnetic Seal Corporation, Warren RI** — *Manufacturing Engineering Intern*

October 2017 - September 2018

- Created CAD drawings for CNC machinists
- Worked on a complete overhaul of the company's preventative maintenance system.
- Gained experience in Microsoft Excel, Visio

### **Raytheon, URI** — *Senior Capstone Project*

September 2021 - May 2022

- Thermal Management of high density electronics

## SKILLS

Solidworks (3D Modeling), Excel, Word, Powerpoint, Visio, Machining (Milling and Lathe), Reading/Making Technical Drawings, G-Code and CNC, Machine Design, Jig and Fixture Designing., AutoCAD, Draftsight (2D Design), 3D Printing, LEAN Principles, Standard Operating Procedures

## EDUCATION

### **University of Rhode Island, Kingston RI** — *MCE Major, Physics Minor*

Anticipated Graduation May 2022

Calculus, Physics, Thermodynamics, Fluid Mechanics, Machine Design, Solidworks, Statics, Dynamics, Material Science, Circuits, Nuclear Reactor Engineering, Engineering Experimentation, Capstone. Spring 2020 - Dean's List.

### **Mt. Hope High School, Bristol RI**

August 2014 - May 2018

Finished with a 3.7 GPA being number 15 in my class.