

Ryan Yerby

MECHANICAL ENGINEER

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Summary

I am looking for an engineering role beginning after the 2022/2023 academic year. I am a graduate of Rensselaer Polytechnic Institute where I received a Bachelors of Science and Mechanical Engineering (3.42 GPA) as well as a Masters of Engineering in Mechanical Engineering (3.63 GPA). During my time at RPI, I was a starting pitcher and Captain on the Varsity Baseball team. I currently attend the University of San Francisco where I am working toward an Educational Technology certificate and am a pitcher on the NCAA Division 1 Baseball team.

Education

Rensselaer Polytechnic Institute

110 8th St, Troy, NY 12180

B.S. IN MECHANICAL ENGINEERING

2017 - 2021

M.E. IN MECHANICAL ENGINEERING

2021 - 2022

Projects

Robotic Deburring of Aerospace Components

Troy, NY

CAPSTONE TEAM MEMBER

2021

- Designed a fixture solution using Siemens NX CAD software to secure aerospace parts with complex geometries to allow deburring of all regions of the part by the robot arm.
- Tested the fixture design through Finite Element Analysis using predicted loads exerted on the part by the deburring tool.

Wire-Arc Additive Manufacturing Thermal Simulation

Troy, NY

DESIGN AND SIMULATION ENGINEER

2022

- Constructed, designed, and tested a thermal simulation in Siemens NX to monitor the temperature of a part during WAAM process
- Simulation properties such as conduction, convection, and phase change were used to benchmark simulation results with experimental results.

Automated Hydroponic System Design

Troy, NY

GRADUATE RESEARCH STUDENT

2021-2022

- Designed, tested, and constructed a hydroponic pot for growing various plants in an automated hydroponic system
- Designed and developed a full-scale hydroponic tank and water aeration system prototype

Experience

PrinterPrezz

4110 Clipper Ct, Fremont, CA 94538

MANUFACTURING ENGINEER

May 2020 - Aug 2020

- Manufactured and post-processed 3D printed Nasopharyngeal Swabs for hospitals to use for Covid-19 testing.
- Created a manufacturing workflow for Nasopharyngeal Swabs and assisted in creating the necessary documentation for the manufacturing process, the device, and the manufacturing equipment.
- Manufactured plastic parts and prototypes using Carbon, Formlabs, and EnvisionTEC printers to assist customers with product design.

Skills

Programming MATLAB, C, C++, Excel, G Code

Manufacturing 3D Printing, CNC, PIM, Manual Machining, Laser-cutting, Vacuum Forming

CAD Siemens NX, Solidworks

Honors & Awards

2022-23 NCAA Division 1 Baseball Scholarship Athlete

San Francisco, CA

2020-22 Team Captain Rensselaer Polytechnic Institute Baseball Team

Troy, NY

2021 Liberty League Pitcher of the Year Baseball

Troy, NY

2021 Academic All-District Baseball

Troy, NY

2017-22 Dean's Honor List

Troy, NY

2019-22 Liberty League All-Academic Team

Troy, NY