

**Summary of Skills**

- Proficient in creative Computer Aided Design and GD&T with demonstrated experience: Solidworks, Autodesk Inventor & Fusion 360, Onshape, nTop
- CFD simulation: Ansys Fluent
- Additive Manufacturing (FDM) Software: Ultimaker Cura, Autodesk Meshmixer
- Programming: Java, Python, MATLAB (Beginner)

**Education****University of Washington - Seattle, WA*****Expected graduation June 2026***

Pursuing Bachelor of Science in Mechanical Engineering, GPA 3.98

Relevant coursework (through Winter 2024): Visualization &amp; CAD, Beginning Scientific Computing, Engineering Statics, Fundamentals of Materials Science

**Experience**Incoming Mechanical Engineering Intern - *Boeing**Starting June 2024*Electric Powertrain Engineer - *UW Formula Motorsports, Seattle, WA**October 2023 - Present*

- Analyzed and optimized geometry within inverter cold plate for improved heat transfer and flow rate
- Compiled and presented designs to industry professionals and integrated feedback into work
- Pinned out and waterproofed inverter connectors
- Collaborate with 90+ students to build a Formula 1 style race car for the Formula Student Competition

Intern - *FineTech Toolings, Bangalore, India**August 2023*

- Modeled a novel HSK-CNC chuck adapter fixture using a lever to increase holding force
- Assembled mechanical product visualizations demonstrating gear ratios of boring tools
- Learned process planning in a commercial setting
- Observed end-to-end design and fabrication of precision machined, injection molded, and stamped parts

3D Printing Lead - *Newport High School Rocketry Club, Bellevue, WA**2019 - 2023*

- Co-captained 2022 national *American Rocketry Challenge* champion team of 10, competing at the *International Rocketry Challenge* in London, England against three countries' representative teams
- Developed and simulated rocket designs using *OpenRocket*
- Designed and 3D printed end-use rocketry components such as nose cones, fins, transitions, and altimeter sleds using *Onshape, Autodesk Fusion 360, and Cura*
- Constructed, assembled, and launched numerous model rocket bodies

CAD (Computer Aided Design) VP - *Newport Robotics Group 948, Bellevue, WA**2019 - 2023*

- Competed in 2023 FIRST Robotics Competition World Championship
- Developed, wrote, and implemented design training curriculum for subgroup of 15-20 in team of 100
- Managed the design and prototyping process of 125 lb robot
- Designed 3D printed accessories such as earrings and aglet covers

**Design Projects**

*Rocket nose cone mounted airbrake for precise payload deployment, 5" - 11" diameter size-adaptable flywheel shooter for robot prototyping, Non-cyclic 10ft scale wind tunnel for aerodynamics testing, Climber capable of traversing a 125 lb robot across multiple spaced rungs, Mechanisms for dual-pendulum hotend based 3D printer*

*3D Printed Cosplay Props: Broadsword - Inspired by Christian Iconography, The Consuming Dark - Path of Exile, Tombfinger - Warframe, Tracer's Pulse Pistol - Overwatch*

**Awards and Achievements**

Keynote Speaker, "How to Win the American Rocketry Challenge" vNARCON

*January 2024*

Team Sustainability Award, FIRST Robotics Competition World Championship

*April 2023*

1st place, The American Rocketry Challenge National Finals

*May 2022*

2nd place, International Rocketry Challenge

*July 2022*

Yale Young Global Scholar

*July 2022*

Semifinalist, FIRST Robotics Competition Dean's List

*April 2022*

1st place, The American Rocketry Challenge National Presentation Competition

*May 2020*