

Ronald R. Rucker

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Everett, WA 98201

EDUCATION

B.S Mechanical Engineering

Minor: Computer Science

Virginia Tech

Sigma Tau Gamma Fraternity – Risk Manager, Executive Liaison

WORK EXPERIENCE

Electrical Engineer – Boeing | Everett, WA

- Manage technical bonding specifications to ensure industry standards
 - Integrate bonding and grounding specifications into aircraft design
 - Review and approve technical drawings after verification of proper bonding and grounding
 - Ensure safety and performance across all commercial aircraft programs
- June 2024 – Present

Mechanical Engineer CO-OP – Newport News Shipbuilding | Newport News, VA

- Worked remotely/hybrid while enrolled as full-time student
 - Ensured quality of submarines met certification standards
 - Authored technical documents detailing the condition of submarines after analysis
- October 2023 – May 2024

Mechanical Engineer Intern – Newport News Shipbuilding | Newport News, VA

- Aided in the design process of future generation attack submarines
 - Wrote technical papers to have new manufacturing processes approved by government
 - Created preliminary designs for propulsion components using additive manufacturing
 - Formally presented team progress to department directors
- May 2023 – July 2023
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PROJECTS

Senior Design Project (NAWCAD) – Virginia Tech

- Designed and built 3 DoF aluminum test stand for 30lb quadcopter drone
 - Programmed drone flight stack and test stand GUI using C++ and MATLAB
 - Used CNC machine to make weight reducing cuts in test stand
- August 2023 – May 2024
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SKILLS

Programming: DEV C++, C, Java, Python, LaTeX, MATLAB, HTML and CSS

CAD: CATIA V5, Siemens NX, Abaqus CAE, Inventor, Solid Works, Fusion 360

Software: Microsoft Excel, PowerPoint, PrusaSlicer, LTspice XVII, Sharepoint

Equipment: 3D Printing, CNC Machining, 5-Axis Manufacturing