

# Eric Holm

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## EDUCATION

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### **The George Washington University**

*Master of Science in Aerospace Engineering*

Washington, DC

Aug. 2024 – May 2025

### **The George Washington University**

*Bachelor of Science in Mechanical Engineering, Cum Laude*

Washington, DC

Aug. 2020 – May 2024

## EXPERIENCE

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### **Wing and Tail Capstone, Aerodynamic Lead**

Aug. 2023 – May 2024

*GWU Design, Build, Fly*

*Washington, DC*

- Collaborated on aerodynamic and structural development and design of RC aircraft's main wing and tail
- Managed wing and tail airfoils selection and completed Finite Element Analysis and Computational Fluid Dynamics
- Co-authored 60-page report summarizing design and manufacturing processes and results

### **Design Validation Engineering Intern**

May 2023 – Aug. 2023

*Knorr-Brake Company*

*Westminster, MD*

- Led creation of automated test bench for train braking system, involving CAD design and schematic creation
- Developed scripts and aided in LabVIEW coding for pressure testing systems
- Modeled CAD of various components on pressure test benches and brake testing systems
- Directed and piloted installation of electrical component wiring for the Long Island Railroad M9 automated test bench

### **Conceptual Design Lead**

Aug. 2022 – Dec. 2022

*Manufacturing Processes Hammer Project*

*Washington, DC*

- Led CAD team in initial and final phase of hammer design; instructed group members in SolidWorks
- Synthesized ideas about materials and machining processes with professional advisors to establish each step of product manufacturing
- Managed and aided in execution of process plan utilizing machines and tools to produce components and final product

### **CAD and Manufacturing, Aerodynamic Team Member**

Aug. 2020 – May 2024

*GWU Design, Build, Fly*

*Washington, DC*

- Performed Computational Fluid Dynamics on general RC aircraft assemblies at differing flight conditions
- Collaborated on creation of fuselage and led integration across other aerodynamic body teams
- Manufactured plane components and worked with team to assemble plane structure for flight competition

### **Integration Team Member**

Aug. 2020 – May 2022

*GWU CubeSAT*

*Washington, DC*

- Organized detailed materials lists for 21 satellite components to determine both efficacy and eligibility given weight, fatigue, and power constraints NASA gave to ensure safety for launch
- Communicated with manufacturers about components and materials, to ensure correct specifications
- Learned STK to complete comprehensive power generation simulations for solar arrays on satellite, providing realistic expectations for actual power generation once in space

## TECHNICAL SKILLS

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**Languages:** Python, MATLAB, HTML, JavaScript, NI LabVIEW

**Software:** SolidWorks, ANSYS Mechanical, ANSYS Fluent, Fusion 360, FeMAP/NASTRAN, CREO, BricsCAD, SolidEdge, Systems Tool Kit (STK), NI Multisim, Microsoft Office Suite

**Operating Systems:** Windows, MacOS, Linux

## ADDITIONAL INFORMATION

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**Professional Organizations:** AIAA, ASME (September 2020 - Present), SAE (May 2024 – Present)

**Extracurricular Activities:** GWU Esports Captain, GWU Lerner Health and Wellness Center Athletic Official

**Interests:** Music, Italian, Motorsports