

# CAMDEN SHUMAN

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## EDUCATION

### The University of Tennessee, Knoxville

*Bachelor of Science in Mechanical Engineering*

Graduation: May 2025

Cumulative GPA: 3.55/4.00

## Skills and Certifications

Siemens NX | SolidWorks | FEA | SAP | Teamcenter PDM | Fusion 360 | 8 years of additive manufacturing experience | DFM/DFA | GD&T | ASME Y14.5-2018 | SAFe | FAA Part 107 Commercial Drone Pilot | MATLAB | Arduino | CNC Machining certification

## EXPERIENCE

### Siemens Healthineers

Knoxville, TN

*Mechanical Engineering Co-op*

January 2023 – Present

- Performed cost-benefit analysis by analyzing FEAs of carbon fiber/HDPE assemblies and reduced material costs by several thousand dollars in a cradle-to-grave product lifecycle.
- Designed assemblies in Siemens NX, created technical engineering drawings, performed cost-benefit analyses, calculated statistical tolerance stack-ups, Finite Element analyses (FEAs), and tested assemblies.
- Submitted RFQs to suppliers, collaborated on prototyping components, and built professional business relationships.
- Executed formal testing and wrote engineering technical reports that were uploaded to SAP.
- Created many engineering change orders (ECOs) that communicated design changes to suppliers and changes to the assembly of PET/CT machines.
- Performed first article inspection using a FARO Quantum CMM arm.
- Calculated the mass and CG of 1000+ component assemblies in Siemens NX.
- Created and interacted daily with large assemblies using Bottom-Up Design Methodology in Siemens Teamcenter and SAP.

### Vulcan Labs

Knoxville, TN

*Technical Consultant*

August 2024 – Present

- Consulted **Lockheed Martin Skunkworks** by working to deliver a Novel 3D Printed Hybrid Heat Pipe Thermal Protection System for Hypersonic Applications.
- Prepared and presented weekly progress update meetings to the Skunkworks Hypersonic Program Manager and Staff
- Made progress writing a Preliminary Design Review document and created an Integrated Master Schedule

## PROJECTS

### The Engineering Way

Knoxville, TN

*Founder*

August 2023 – Present

- Created a platform for engineers to help advance their careers, become better versions of themselves, and build an inspiring future through 47+ free articles about strategic communication, personal branding, and the growth mindset.
- Spoke as a thought leader guest on the “Being an Engineer” Podcast

### Shuman Consulting

Knoxville, TN

*Founder*

May 2024 – Present

- Provide consulting services to J. Micheal Stone (Engineering college Donor) regarding his popular “Pathways to Success” class
- Prepared and reviewed material for weekly discussions

## LEADERSHIP

### Engineering Professional Practice Office

Knoxville, TN

*Ambassador*

August 2024 – Present

- Advise engineering students weekly on how to build careers they love
- Craft resumes and elevator pitches with them that highlight their skills and experience
- Speak at career development events and encourage students by sharing my experiences with industry

## HONORS & AWARDS

Beacon Scholar | J. Michael Stone Engineering Award | Henry C. Goodrich Scholar | John L. Chafin Scholar | Korpman Entrepreneurial Scholar | Graves Business Plan Competition Award