

# THOMAS KENT CALLEN

## EDUCATION

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### The University of Michigan, College of Engineering

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science, Minor in Entrepreneurship

May 2025

- **Cumulative GPA:** 3.5/4.0
- **Awards:** Dean's Lists (Fall 2021, Winter 2022, Fall 2024)

## RELEVANT COURSEWORK

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### Introduction to Computer Security

Winter 2024

- Principles and practices of computer security as applied to software, host systems and networks

### Web Systems

Fall 2024

- Topics include client/server protocols, security, information retrieval, search engines, scalable data processing, and fault tolerant systems

## EXTRACURRICULARS

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### UofM's Bioastronautics & Life Support Systems Team

Ann Arbor, MI

Data Sub Team Member

Sep. 2023 – May 2024

Electrical Sub Team Lead

Aug. 2024 – Present

- Coordinate with project leads and NASA stakeholders to define project requirements, shortcomings, and goals
- Harness leadership and speaking skills to contextualize and explain problems and assignments to sub team members in a comprehensible manner
- Practiced systems engineering concepts via the creation of trade studies and level requirements
- Employ embedded systems to process sensor data and manage user interface commands

### Entrepreneurship Creativity Club

Ann Arbor, MI

Treasurer

Jan. 2023 – Sep. 2024

- Applied for grants and dispersed funds to selected startups and entrepreneurs based on campus
- Interviewed established entrepreneurs to inquire lessons learned from their experiences

### University of Michigan Electric Boat

Ann Arbor, MI

Web-Developer

Sep. 2023 – May 2024

- Utilized a combination of Typescript and Figma to create a professional and interactive website
- Collaborated with club leadership to plan website design and appearance prior to development

## WORK EXPERIENCE

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### GLBL Foundation

Remote

Software Engineer

Nov. 2024 – Present

- Design and prototype the embedded systems of a free-source internet-connected water purifier/analyzer
- Build responsive web and mobile UIs using React to visualize data from water purifiers

### Kinetix LLC

Sparta, MI

Intern

May 2024 – Aug. 2024

- Automated the remote deployment and installation of software updates and applications
- Created interactive and insightful business reports with Power BI and Microsoft Excel
- Assisted in the programming, installation, and testing of network appliances

### Callen Engineering, Inc.

Spring Lake, MI

Engineering Intern

Sep. 2020 – Aug. 2021

- Utilized Sketchup and rendering software to create life-like 3D models of structures and terrain
- Drafted and organized professional engineering documents for various civil projects
- Provided duties of inspector throughout the construction of multiple housing developments to ensure abidance to local and national building codes and ordinances

## SKILLS

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**Coding Languages:** C, C++, Python, SQL, MATLAB, PowerShell, Bash, JavaScript, HTML/CSS

**Developer Tools and Platforms:** Windows, Linux, AWS, RaspberryPi, Git, Docker, Microsoft 365, Power BI, Spark