

# Jeremy Mark Tubongbanua

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## EDUCATION

### Ontario Tech University

*Bachelor of Engineering, Software Engineering (Honours)*

Oshawa, ON

Sep. 2021 – Apr. 2025

- 3.92 cGPA (4.3 Scale)
- Relevant Coursework: Systems Programming, Computer Networks, Introduction to Artificial Intelligence, Operating Systems, Software Quality, Computer Security, Embedded Systems, Machine Learning and Data Mining

## EXPERIENCE

### Software Engineer

*Atsign*

Aug. 2022 – Present

*San Jose, CA*

- Led development of C SDK, enabling secure **TCP/IP** sockets for embedded systems to communicate securely over the network eliminating all networking attack surfaces, written in **C**, **CMake** and **MbedTLS**
- Developed NoPorts C Daemon software, enabling common networking remote access protocols (like SSH/RDP) without the need to open any external ports on Linux system, written in **C** and **CMake**
- Represented Atsign at **CES 2024**, collaborating with engineers from the **The Qt Company** on a **Python** Raspberry Pi IoT demo, showcasing secure networking between **Linux** devices to 138,000+ conference attendees
- Developed regression tests and tooling for NoPorts product, simulating full end-to-end remote access between Linux containers using **Docker** and **UNIX Shell Scripting**
- Implemented **CI/CD** pipelines for core **Java** libraries automating regression tests and release to Sonatype Nexus Repository using **Maven** and **GitHub Actions**

### Software Engineer Intern

*Atsign*

Jun. 2022 – Jul. 2022

*San Jose, CA*

- Developed Challenge-Response Authentication Mechanism (CRAM) and Create, Read, Update, and Delete (CRUD) operations in **Java** leveraging object-oriented principles and **Maven**
- Rebuilt developer documentation site with **HTML/CSS/JS**, establishing a standardized framework for technical writers to add and maintain developer documentation

## LEADERSHIP EXPERIENCE

### Robotics Judge Advisor

*Mary Ward CSS Robotics Team*

Nov. 2022 – Present

*Toronto, ON*

- Served as the Judge Advisor for lego robotics competition events with over 1,000 attendees, coordinating 25+ adult judge volunteers and enforcing strict adherence to the official scoring rubric during team evaluations
- Communicated safety expectations and event logistics, ensuring a safe and efficient event

### Vice President of Communications

*Ontario Tech University Computer Science Club*

Apr. 2023 – Apr. 2024

*Oshawa, ON*

- Led internal/external communications and managed general club member monthly newsletter
- Managed sponsorship acquisition and coordinated career-building workshops and events for the club

## AWARDS

### 3<sup>rd</sup> Place in Programming

*Ontario Engineering Competition 2025*

Jan. 2025

*McMaster University*

- Awarded 3rd place in the province, representing Ontario Tech University competing against 13 engineering universities
- Developed disaster management application involving front-end/back-end integration and robust distributed systems solution using **Docker**, **Python Flask**, **React**, and **Tailwind CSS**

### 1<sup>st</sup> Place Overall

*NASA Space Apps Hackathon 2024*

Oct. 2024

*Ontario Tech University*

- Awarded 1st place out of 12 teams and selected as global nominee to represent Ontario Tech on global stage
- Built a full-stack web application converting NASA Earthview data into 3D-printable STL meshes enabling qualitative inspection for Canadian Space Agency mission scientists, using **React**, **Tailwind CSS**, **Python Flask**, and **Linux**