Jeremy Mark Tubongbanua

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EDUCATION

Ontario Tech University — Oshawa, ON
Bachelor of Engineering, Software Engineering (Honours) — *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 — Aug. 2022 – Present
Atsign — *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 attenders
- 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 — Jun. 2022 – Jul. 2022
Atsign — *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 — Nov. 2022 – Present
Mary Ward CSS Robotics Team — *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 — Apr. 2023 – Apr. 2024
Ontario Tech University Computer Science Club — *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

3rd Place Overall in Programming — Jan. 2025
Ontario Engineering Competition 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

1st Place Overall — Oct. 2024
NASA Space Apps Hackathon 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 **Python Flask + React** full-stack web application converting NASA Earthview data into 3D-printable STL meshes enabling qualitative inspection for Canadian Space Agency mission scientists