Russell Corbett

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Experience

Nasdaq Verafin **May 2024 – Aug 2024, Jan 2025 – Apr 2025**
Software Developer Intern
- Debugged and resolved production software issues reported by users, improving customer experience and reducing recurring defects.
- Tuned database import parameters to optimize data transmission throughput into the Verafin platform.

Angler Solutions **Sep 2023 – Dec 2023**
Co-op Engineering Student
- Built a wind-farm web application in Python to analyze sensor readings and compute optimal turbine placement, leading a team of three under Agile practices.
- Configured networking for ten partner companies, securing video transmission, peer-to-peer device communication, and live-stream deployment to an online audience.

Bell Canada Enterprises **Jan 2023 – Apr 2023**
System Analyst
- Developed a Python data-analysis automation system that reduced manual processing effort by 99.7%.
- Standardized an automation-creation process for future co-op students, unifying design and format across the team.

Avalon Controls **May 2022 – Aug 2022**
Engineering Co-op Intern
- Architected and implemented a new communications and networking system, increasing throughput 100x.
- Designed a deployment plan for future system expansion, ensuring scalability and maintainability.

Eastern Edge Robotics **Oct 2021 – Present**
Software Lead / Chief Operating Officer (Extra Curricular)
- Architected the control system for a competitive underwater ROV in Python and ROS2, including a diagnostics GUI and refined pilot controls.
- Integrated brushless-motor thrusters, servos, lighting rigs, network communications, and onboard tooling into a unified control stack.
- Contributed to a 1st-place finish at the 2026 MATE EXPLORER World Championship.

Paradigm Engineering **Oct 2022 – Apr 2024**
Path Planning Lead (Extra Curricular)
- Developed a path-planning algorithm for a high-speed autonomous vehicle navigating a dynamic environment.
- Built a vehicle-to-pit-crew communication system for real-time updates using Python and UDP, validated in a ROS2 simulation environment.

Education

Memorial University of Newfoundland **St. John's, NL, Canada**
Master of Business Administration Expected 2028
Bachelor of Engineering - Computer Engineering Class of 2026
Engineering Society Director of Communications (2023-2025), Relay for Life Tech Committee Lead (2022-2026)

Skills

Languages: JavaScript, TypeScript, C/C++, Python, C#, HTML, CSS
Frontend: ReactJS, Astro, NextJS, RemixJS, TailwindCSS
Backend: NodeJS, ExpressJS
Embedded: Arduino, Raspberry Pi, ESP32, ROS2
Tools: Git, GitHub Actions, Docker, Grafana, AWS, Digital Ocean, Proxmox VE

Projects

Corbett Homelab
- Architected and implemented a server environment using Proxmox VE and Docker to host various services and apps.
- Deployed control and communication systems using MQTT, Zigbee, Z-Wave, and Bluetooth protocols.