Joe Jaison T

Ottawa, Ontario

**Cell**: 647-865-9197

**Email**: [joejaisonth@gmail.com](mailto:joejaisonth@gmail.com)

**LinkedIn:** [www.linkedin.com/in/joe-jaison-t](https://www.linkedin.com/in/joe-jaison-t/)

**EDUCATION**

**Electrical Engineering and Computing Technology**

University of Ottawa, Ottawa, Ontario, Canada September 2023 – Present (expected 2028)

Clubs and societies: uORocketry, uOFPGA

**Computer Systems Technician - Networking**

Centennial College, Toronto, Ontario, Canada. September 2019 – April 2021

Clubs and societies: Toastmasters International

**SKILLS SUMMARY**

* Designed and optimized circuit schematics, BOMs, and PCB layouts using Altium Designer and KiCad.
* Manufactured PCBs with SMD and through-hole components using advanced soldering techniques with soldering iron and heat gun.
* Leading the Avionics Hardware sub-team for the university of Ottawa Rocketry club, showcasing leadership skills.
* Programmed microcontrollers in Rust and C/C++ using JTAG with Segger debug probes for embedded systems.
* Utilized STM32CubeIDE and Arch Linux environments, alongside probe-rs and OpenOCD, to program microcontrollers.
* Worked extensively with Atmel ATSAME51 and ST STM32 series microcontrollers.
* Proficient in development boards and SBCs with microprocessors, including Arduino, Raspberry Pi, and headless SBCs.
* Designed network infrastructures and configured servers for FTP, DNS, and DHCP topologies in professional settings.
* Conducted FPGA simulations and training using Altera Cyclone IV with Verilog and Block Diagram Files (BDF).
* Troubleshot and maintained Fiber Internet, DSL, and home phone networks with efficiency.
* Adept in cybersecurity for distributed systems using network-based firewalls.
* Experienced with network monitoring tools such as Wireshark, Nmap, and Aircrack-ng in lab environments.
* Skilled in multiple programming languages: Java, Python, GoLang, C/C++, Rust, Scheme, Prolog, Kotlin, and Verilog.
* Developed web applications using HTML, CSS, TypeScript, and Flask frameworks.
* Proficient in command-line tools and Git, including GitHub Actions for automated deployments.
* Built network environments and configured servers using Cisco Packet Tracer simulations.
* Managed GSM/4G/5G network projects with a focus on regulatory compliance and operational efficiency.
* Delivered technical support, system repairs, and configurations for Bell’s customer base.
* Collaborated on the design and implementation of reliable network environments in team projects.
* Sound understanding of celestial objects, sky observation, and astronomy principles.
* Proficient in handling equatorial telescope mounts and performing precise calibration of telescopes.

**WORK HISTORY / PROJECTS**

**uORocketry – University of Ottawa’s Rocketry Club, Ottawa, ON September 2023 - Present**

**Electrical Engineer**

**Key Achievements:**

* Proficiency in Altium Designer: Designed and reviewed circuit schematics, generated BOM, PCB layouts, and routing to ensure optimal performance.
* Aerospace-Grade Component Selection: Conducted thorough research to select high-quality components and materials for PCB manufacturing, ensuring compliance with industry standards and safety requirements.
* PCB Manufacturing: Manufactured PCBs using surface-mount (SMD) and through-hole components, employing tools such as a heat gun and soldering iron.
* Microcontroller Programming: Programmed and flashed onboard microcontrollers using Rust and JLink, optimizing system functionality.

**Yupana Inc, Toronto, ON June 2022 – August 2023**

**Site Technician/Auditor**

**Key Achievements:**

* Base Band Unit Integration: Integrated base band units in cell sites for 2G/3G/4G/5G networks, following precise installation guidelines.
* Compliance and Supervision: Followed directions from site supervisors and adhered to company guidelines during telecommunication unit installations.
* Data Auditing and processing: Recorded, reviewed, and interpreted audit data to evaluate operational effectiveness and compliance.
* Special Projects: Managed additional duties and special projects to ensure efficient business operations and regulatory compliance.

**Bell Canada**

**Toronto, ON August 2021 – May 2022**

**Field Service Technician (Structured Cabling) - BTS**

**Key Achievements:**

* Network Infrastructure Maintenance: Worked on network infrastructure, including Pure Fiber Internet, home phones, and DSL.
* Technical Support: Repaired, installed, and troubleshot network devices and infrastructure.
* Riser Technician Training: Trained as a riser technician, proficient in working at heights and handling fiber backbones.
* Technical Assistance: Assisted fellow technicians with technical difficulties and roadblocks, ensuring project success.
* Customer Service: Provided exceptional service to customers through positive communication, professional appearance, and conduct.
* Brand Representation: Actively supported the Bell brand by highlighting its benefits to customers, enhancing their satisfaction and loyalty.

**CDI Technologies**  
**Markham, ON May 2020 – June 2020**

**Computer Technician**

**Key Achievements:**

* System Repair and Configuration: Expertly repaired and configured computer systems as per client requests, ensuring all hardware and software components were functional and up to date.
* Efficiency in Performance: Consistently met daily targets, demonstrating the ability to handle computer systems swiftly and accurately. This efficiency contributed to the timely fulfillment of orders.
* Team Collaboration: Worked closely with a team of technicians, coordinating efforts to ensure early completion of projects. This collaborative environment enhanced overall productivity and customer satisfaction.

**Centennial College**

**Toronto, ON January 2020 – April 2020**

**ICET Workshop**

**Workshop Achievements:**

* Computer and Accessory Repair: Repaired and configured computers and accessories per appointment, maintaining meticulous documentation.
* School Equipment Servicing: Collaborated with a team to service and repair school equipment, ensuring functionality and minimizing downtime.
* Guided Problem-Solving: Addressed technical issues with precision and efficiency, applying guidance and strategies from professors to prevent component damage.
* Proficiency in Ticketing Systems: Utilized ticketing systems to track and manage repair tasks, ensuring timely resolution and clear communication.

**Centennial College**

**Toronto, ON January 2021 – April 2021**

**Technician Project**

**Project Achievements:**

* Networking Equipment Setup: Collaborated with a team to establish a fully operational network environment, ensuring optimal performance and reliability.
* Team Collaboration: Leveraged past learning experiences and group coordination to achieve project outcomes effectively and efficiently.
* Server Configuration: Played a key role in configuring servers, including FTP, DNS, HTTP/S, and DHCP, to meet project requirements.
* Network Topology Design: Contributed to designing and implementing the network topology, aligning with project goals and technical standards.