Zayed Umer

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EXPERIENCE

LocoMobi World Inc. Mississauga, ON
Software Developer Intern *May 2023 - August 2023*

- **Python Development:** Utilized APIs, Python packages, and version control to develop Python programs that actively monitored LocoMobi World devices at client sites. Implemented client notification systems for prompt issue resolution.
- **Quality Assurance Expert:** Created comprehensive testing plans to ensure the functionality of new firmware, software, websites, and hardware modules. Utilized TestFlight for app updates and JIRA for issue tracking and developer communication.
- **Automation Champion:** Proficient in scripting languages like Batch and Bash, I streamlined tasks on Linux and Windows platforms. Developed automation scripts to download and set up Python programs on new PCs. Created Bash scripts for data cleaning on previously configured Raspberry-Pis running Linux.
- **Documentation Maven:** Created customer-friendly documentation on hardware module configuration, operation, and updates. These resources simplified client interactions with our products and aided in maintenance tasks.

Spinal Cord Injury Ontario Toronto, ON
Data Cleaning Coordinator *June 2021 - August 2021*

- **Data Integrity**: Meticulously cleaned and managed donor databases using Raiser's Edge software, preserving data integrity and accuracy.

Albert Campbell Collegiate Institute Toronto, ON
Volunteer *November 2019*

- **Student Ambassador**: Represented the school as a student ambassador, passionately introducing prospective students to our enriched sciences curriculum during open house events, fostering community engagement.

PROJECTS

- **Personal Website**: Designed and developed a responsive personal website from scratch using HTML5, CSS3, and JavaScript. Ensured cross-browser compatibility, optimized performance, and enhanced user engagement with interactive elements and animations.
- **Revenge Of the Recycling System**: Engineered a Python program for material identification and classification, contributing to improved material analysis efficiency and waste reduction. Designed and implemented a sustainable waste management mechanism using Autodesk Inventor and 3D printing. Collaborated with a multidisciplinary team to enhance program robustness and accuracy through systems design principles.
- **Get A Grip**: Developed a Python software program for remote robotic arm control, essential for remote surgeries. Collaborated closely with teammates to implement potentiometer input control, ensuring precise and responsive robotic arm movements. Maintained meticulous documentation of experimental results, facilitating data analysis and insights.

AWARDS

- 2022 Valedictorian Award Winner, Albert Campbell CI
- 2022 Recipient of Engineering Award of Excellence Scholarship, McMaster University
- Dean's list, McMaster University

PROGRAMMING SKILLS

- **Languages**: Python, Java, C, Bash, Batch, HTML, CSS, LaTeX **Technologies**: AutoCAD

EDUCATION

McMaster University Hamilton, ON
Bachelor of Software Engineering *Expected Graduation: April 2026*