JAZIM SYED – BIOMEDICAL ENGINEERING STUDENT TMU

Toronto, ON| (289) 527-3653 | jazim.syed@torontomu.ca | LinkedIn

OBJECTIVE

Driven third-year Biomedical Engineering student with advanced proficiency in electronics and mathematical modeling, seeking a hardware and prototyping internship role. Aiming to utilize my strong analytical and technical skills to support the design, development, and testing of cutting-edge hardware solutions across various technology sectors. Eager to contribute to innovative projects in a hands-on, collaborative engineering environment.

SKILLS & TOOLS

- Calculus I, II: A- and A respectively
- Circuit Analysis and Hardware: BME 328 & 434, A- and B respectively
- Statistics, Linear Algebra, & Fluid Mechanics: A+, A-, & B+ respectively
- Experienced with FPGA Boards (BME328 Labs)
- MATLAB & EXCEL: Through my Calculus and Statistics courses
- CPS188 has led me to be proficient in C & PYTHON coding languages
- Microprocessor Systems (in-progress): learning to be proficient in MPLABX
- Electric Circuit Analysis has taught me to be proficient in the circuit software: Multisim
- AUTOCAD through a mini-capstone project in the BME100 course

Education & Certifications

- Bachelor of Science in Biomedical Engineering -Toronto Metropolitan University (formerly Ryerson University), 2021-2027
- Project Management certification (PM Ready in Progress) - Project Management Institute (DEC 2024)
- OSSD - Dr. Frank J. Hayden Secondary School, Burlington ON, 2019-2021

RELATED PROJECTS (All projects can be viewed through my website: jazims.github.io)

POST-STROKE REHABILLITATION EXOSKELETON

- Developed a 3D model of a rehabilitation exoskeleton for post-stroke patients using Autodesk Inventor. Tasked with creating a cost-effective, sustainable device, I encountered the challenge of integrating a power system that didn't require external charging. I resolved this by designing a renewable energy system that converted the user's kinetic energy into power, resulting in a functional, accessible, and sustainable solution.

CPS188 – LAKE AVERAGE TEMPERATURES IN ONTARIO

- Coded a C program to analyze lake temperature data. Tasked with finding the hottest and coldest days, I built an algorithm to process large datasets efficiently, resulting in accurate statistics and showcasing my data analysis skills.

BME423 – EVALUATING 3D PRINTING METHODS FOR TITANIUM, STAINLESS STEEL, AND COBALT-CHROMIUM

- For this Project, I had dived into the different methods of 3D printing and how each material affects the human body and the reactions, longevity and any extra complications with using a material for an 3D printed implant.

BIOMEDICAL ENGINEERING CONFERENCE – TMU

- Was head of finances for the 2022 Biomedical Engineering Conference at TMU. Additionally, this conference invited employers, professors and biomedical engineering co-op students.

EXPERIENCE

AUG 2023—PRESENT: PSW ASSISTANT, EXTENDICARE LONG TERM CARE HOME

- Assist nurses with daily routines for residents (e.g. feeding, changing).
- One on one with residents who may require extra assistance.
- Coordinate activities for residents with recreational department.

AUG 2022—AUG 2023: GENERAL WORKER, REVERA LONG TERM CARE HOME

- Pan bio and clinic work: Rapid Covid tests for both staff and visitors.
- One on one with residents who may require extra assistance.
- Screened visitors and staff entering the building for Covid symptoms.

SEP 2022—MAY 2023: VP FINANCE, BIOMEDICAL ENGINEERING COURSE UNION, - TMU

- Planned budgets for events held during the year & forecasted budgets for the upcoming year.