MARYAM ATHEEQ

Electrical Engineering Student

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WORK EXPERIENCE

Technical Project Lead

Suncor Energy Fluvarium

Sep - Dec 2024 St. John's, NL

- Developed a remote-controlled boat by integrating advanced ***RC electronics***, utilizing ***CAD tools*** and applying ***3D printing*** technologies for efficient prototyping
- Organized and participated in a remote-controlled boat race, providing hands-on learning opportunities for engineering students
- Managed the RC Boat Competition project for the Annual Rennie's River Race 2025, coordinating with stakeholders, including sponsors and faculty to secure resources and ensure timely execution

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Co-op Engineering Student

Tetra Society of North America

Jan - May 2024 St. John's, NL

- Designed and fabricated assistive devices for shoes and AFOs (Ankle Foot Orthoses), including a supportive platform using ***SolidWorks*** to address the mobility needs of a 70-year-old with polio
- Demonstrated ***problem-solving*** by brainstorming and determining optimal solutions, while applying ***3D printing*** techniques to prototype the devices

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Front-End Developer

Easy Receipt Inc.

Sep - Dec 2023 St. John's, NL

- Developed a front-end application using ***HTML***, ***CSS*** and ***JavaScript*** to create a responsive and user-friendly interface
- Utilized ***Git*** for version control, including branching, merging, and resolving conflicts to ensure seamless team collaboration
- Continuously optimized web performance and improved user experience by debugging and resolving interface-related issues

AWARDS & SCHOLARSHIPS

Verafin Inc. Engineering Scholarship ($3,000)	2023
PEGNL Bursary ($1,500)	2023
International Entrance Scholarship ($4,000)	2022
Engineering High Achiever Entrance Scholarship ($2,000)	2022
Guinness World Record, World's Largest Human Mosaic	2017

EDUCATION

Bachelor of Electrical Engineering, Co-op Program

Memorial University of Newfoundland

Sep 2022 – Present St. John's, NL

Enrolled in Third Year (Academic Term 5), Class of 2027

PERSONAL PROJECTS

Greenhouse Monitoring System

Developed a greenhouse monitoring system using Arduino UNO and Python to track temperature and light changes, enabling automated environmental adjustments

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Security Light System

Designed an Arduino-based security light system with motion and light sensors, providing automated and energy-efficient lighting solutions

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Powered Speaker Driver Circuit

Created a powered speaker driver circuit with amplification, simulating with PSpice and validating performance using an oscilloscope

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Snake Game

Programmed a dynamic Snake game with responsive controls and smooth gameplay using JavaScript

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Portfolio Website

Designed and coded a professional portfolio website using HTML, CSS, and JavaScript

TECHNICAL SKILLS

Orcad PSpice | MATLAB | Simulink | MS Excel | MS Word | MS PowerPoint | Iot Design | HTML | CSS | JavaScript | Project Management | C++ | Python | Arduino UNO | Assembly Language (Using C) | SolidWorks | 3D Printing

VOLUNTEERING

- **ISC- MUN** – Event Coordinator
- **Robogals MUN Chapter** – Student Volunteer
- **MSA- MUN** – Lead Volunteer
- **MUN Student Volunteer Bureau** – Student Volunteer