

# Abdullah Syed

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## EDUCATION:

Toronto Metropolitan University

Toronto, Canada

*Electrical Engineering – Bachelor of Engineering*

2019-2024 (Expected)

**Relevant Courses:** • Microelectronic Circuits • Digital Signal Processing • Digital Control Systems • Communication Systems • Energy Conversion • Electromagnetics • Microprocessor Systems • Digital Systems • Robotics

## SKILLS & INTERESTS:

- **Languages Spoken:** English, Urdu, Hindi
- **Programming Languages:** Java, C, MATLAB, JavaScript, HTML, CSS, JSX
- **Technologies:** Multisim, Intel Quartus, Simulink, CodeWarrior, ReactJS, Node.js, Git, Microsoft Office, G Suite

## PROJECTS:

**Linear Voltage-Controlled Frequency Function Generator - October 2022**

[Project Link](#)

- Designed and crafted a device capable of producing symmetrical triangular and square waves by employing a systematic approach that encompassed stages of circuit design analysis, Multisim simulation, and physical implementation on a breadboard.
- Incorporated two user-selectable frequency ranges: Range 1 (100 Hz - 4200 Hz) and Range 2 (20 Hz - 840 Hz), as well as user-controlled gain ranging from 0-4Vp providing flexibility in wave generation.
- Utilized unit testing methodologies to identify, troubleshoot and resolve issues within the circuit design and implementation. Employed bypass capacitor circuits to minimize noise and ensure stable performance.

**Design of PID Controller for Servo Positioning Module - March 2023**

[Project Link](#)

- Implemented a PID controller for a simulated and real-time DC servo motor to enhance the closed-loop response of the system to a square wave input, demonstrating expertise in control system design and optimization.
- Analyzed response specifications for both uncompensated and compensated systems, comparing rise time, settling time, maximum overshoot, and steady-state error to assess the effectiveness of the control strategies.
- Explored the effects of control parameters on system operation outside the nominal range, demonstrating a comprehensive understanding of system behavior in challenging conditions such as saturation and dead zone states.

**Microcontroller Maze Solver - November 2021**

[Project Link](#)

- Developed a robust microcontroller maze solver using assembly language, demonstrating expertise in low-level programming and control systems.
- Implemented comprehensive error handling and condition-based decision-making, enabling the robot to handle various scenarios such as collisions, reverse bumps, and periodic automatic turns.
- Demonstrated proficiency in utilizing timers and counters to synchronize robot actions, ensuring accurate timing for state updates, and turning maneuvers.

## PROFESSIONAL EXPERIENCE:

**Sheen For She Foundation - [Website](#)**

Toronto, Ontario

*Event Coordinator and Volunteer Leader*

Mar 2020 – Present

- Actively contributed to the marketing efforts of Sheen for She Foundation, raising awareness about its services and initiatives.
- Played a vital role in planning and executing successful events, ensuring smooth logistics and effective implementation.
- Developed strong leadership skills by effectively managing and coordinating volunteers and engaging with clients in a compassionate and empathetic manner.
- Effectively communicated the mission and impact of Sheen for She Foundation to stakeholders and the community, fostering a greater understanding and support for the organization's goals.

**Toronto Metropolitan University Recreation- [Website](#)**

Toronto, Ontario

*Drop-in Strategist & Supervisor*

Sept 2023 – Present

- Utilized strategic analysis and metric tracking to optimize the Drop-In program, enhancing participation rates and student benefits.
- As a committed supervisor, ensured the safety and inclusivity of daily drop-in sessions and special events, taking the lead in promptly addressing injuries and managing various emergent situations.
- Acted as a university ambassador, delivering exceptional support to clients during special events.