

Mohammad Omar Aleem

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Summary of Skills and Knowledge

Programming | C++ • Java

Applications | Office 365 • [Auto CAD](#) • LTspice • MATLAB • Microsoft 365 Admin Centre • Microsoft Intune • Exchange Admin Centre • Ninja One • Commvault • Maegan Back Office • Apple Business Manager • Power Automate • GitHub

Tools | Multimeter • Oscilloscope • Breadboard • ECP Model 220 • Soldering • Function Generator

Languages | English | Fluent • Urdu | Fluent • Hindi | Spoken.

Education

Bachelor of Electrical Engineering, Co-op.

Expected Graduation: May 2026

Concordia University - Montreal, QC

Relevant Courses: Programming in C++, Circuit Analysis, Digital System Design, Electronics, Continuous time signals, Data Structures and Algorithms, Control Systems, Electromagnetics, Transmission Lines, Power Systems

Experience

Foodtastic - Montreal, Canada

May 2024 – Aug 2024

IT Intern

- **Cloud Administration:** Managed **Azure, Entra ID, Intune, and Exchange Admin** for **300+ users**, optimizing access control.
- **Automation:** Developed **Power Automate workflows** and **Python-based automation** to streamline onboarding, travel policies, KML file generation, and inventory tracking, reducing manual processing time by **60%** while enhancing data integrity and retrieval efficiency.
- **Infrastructure & IT Support:** Deployed **Uptime** for monitoring **25+** critical websites. Enhanced infrastructure and resolved **500+** IT issues, covering user management, hardware, and network security.
- **Cyber Security & Incident Response:** Investigated and documented a **Tier 2 ransomware attack**, implementing **ring update strategies** post-CrowdStrike crash to **enhance system security**.
- **Phishing Awareness & Security Training:** Conducted **multi-method phishing simulations** (Teams phishing, QR codes, and social engineering), improving **employee threat detection by 35%** and strengthening cybersecurity awareness.

Projects

Smart Attendance System - ClockIt

Sept-Nov 2024

Developed a real-time NFC-based attendance system using an ESP32 microcontroller, NFC cards, and an Android app. Integrated Google Sheets API for live attendance tracking, reducing manual errors by 70% and improving administrative efficiency by 50%. Implemented Firebase Authentication for secure login, ensuring seamless user access and data integrity.

Core Competencies: NFC Technology, Google Sheets API, Android Development, Firebase Authentication, Real-time Data Processing.

Room Occupancy Monitoring System

April 2024

Engineered a sophisticated digital system using VHDL to track room occupancy. Integrated logic with binary signals for entry/exit tracking, and for a programmable occupancy threshold. Employed a Xilinx Nexys A7 FPGA board for simulation and synthesis; optimized for speed and resource utilization.

Core Competencies: VHDL Programming, FPGA Simulation and Synthesis, Test Bench, Project Documentation, Resource Optimization.

Automated Hover Craft

Sept 2023

Constructed an autonomous hovercraft using Arduino, integrating ultrasonic sensors and an IMU for advanced environmental navigation and obstacle avoidance. Applied analytical techniques to balance system complexity against performance in a competitive design context.

Core Competencies: Critical thinking, Problem assessment, Analytical evaluation, Adaptability, Arduino Programming, Technical Integration, Data-Driven Decision Making, Team Collaboration, Effective Communication.

Othello Board game Implementation

Mar 2023

Developed a fully interactive Othello game in C++ with a focus on advanced object-oriented design, efficient data handling, and real time game state management. Utilized vectors for dynamic data storage and complex game logic encapsulation.

Core Competencies: Critical thinking, Problem assessment and analysis, Adaptability, C++ Programming