Myyar Abualhayja’a

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Skills

Programming & Embedded Systems: Arduino, Embedded Systems, Sensors, Circuit Integration, Hardware-Software Integration, VBA, Excel
Electrical & Power Systems: High voltage Systems, Power Distribution, Battery/Accumulator Systems, BMS integration, Electrical Safety, Circuit Design, Electrical Testing
CAD & Engineering Design: AutoCAD, Autodesk Revit, Autodesk Inventor, 2D Technical Drafting, 3D Modeling, Technical Documentation, Dimensional Design
Electronics & Hardware: PCB Design, KiCad, Soldering, Wiring & Crimping, Electronics Troubleshooting, Hardware Diagnostics, Component-Level Repair
Engineering & Project: Project Management, Project Scheduling, Technical Measurement, Material Quantity Calculations, Process Improvement, Workflow Automation, Technical Problem Solving
Communication: Technical Communication, Manufacturer Coordination, Client-Centered Design, Team Collaboration, Technical Presentation

Work Experience

I8 Interior Finishes - Project Management Intern Hybrid | May 2026 - Aug 2026

- **Managed** schedules, labourers, subcontractors, and trade contractors across multi-site residential and commercial renovations, coordinating daily scopes and resolving schedule conflicts to deliver projects **within 10 - 14-day deadlines**

- **Accelerated** a 16th-floor Sandman Hotel renovation by developing a **14-day trade schedule** and coordinating demolition, drywall, sanding, priming, and wallpaper teams; resolved on-site delays to complete the **16-room floor in 12 days**, with the project recognized by management as the company's **smoothest handover to date**

- **Developed** a GPS-enabled project documentation system to replace fragmented photo records, organizing contractor-specific progress photos with **automatic timestamps/location data, voice notes, and trade tags** while centralizing documentation without relying on phone storage

- **Designed and modeled** custom sliding-door systems for four UpperVista residential layouts, measuring jobsite openings and using **Autodesk Inventor and Revit** to develop door assemblies and verify fit before coordinating manufacturing and large-scale material orders

- **Produced** engineering drawings and calculated material quantities for the Moxies Hamilton renovation, translating site measurements into manufacturer-ready specifications for **LVT flooring, tile, upholstery, and architectural finishes** to ensure accurate material procurement

- **Independently executed** the project's electrical scope, including fixture removals, new lighting installation, and **24 patio fixtures**, applying electrical-safety procedures and lighting plans while completing the renovation **within the two-week deadline**

- **Automated** trade-worker time tracking by developing an **Excel/VBA clock-in system** using employee IDs on an iPad, replacing manual time logging and improving the accuracy and efficiency of labour-hour documentation

MySytem Computer Solutions - Technical Support Technician Hamilton, ON | Oct 2024 - present

- **Diagnosed and repaired** electronic hardware across smartphones, tablets, and PCs by systematically isolating faults in **motherboards, batteries, LCDs, digitizers, charging ports, connectors, and other internal components**, restoring devices to functional condition

- **Disassembled and reassembled** complex mobile devices using precision tools while replacing damaged electronic and mechanical components, developing hands-on experience working with **compact, densely integrated electronic systems**

- **Performed soldering and component-level repairs** on electronic devices, developing practical skills in **soldering, electrical connections, circuit-board handling, and precision electronics repair**

- **Troubleshot hardware failures** by inspecting components, identifying damaged or malfunctioning parts, and determining appropriate repair or replacement procedures rather than relying solely on component swapping

- **Worked directly with printed circuit boards and motherboard assemblies**, gaining practical exposure to **electronic components, connectors, traces, power delivery, charging circuitry, and hardware interconnections**

- **Tested repaired devices** following component replacement to verify functionality and identify remaining faults, using an iterative **diagnose -> repair -> test -> troubleshoot** process to ensure reliable operation

- **Installed and configured software and operating systems** and performed system updates to resolve software-related issues and improve device functionality and performance

- **Performed PC hardware upgrades and repairs**, working with internal computer components and diagnosing hardware compatibility and performance issues

- **Installed and configured Wi-Fi repeaters and security-camera systems**, gaining practical experience with **networking equipment, device configuration, wiring, and electronic systems integration**

- **Developed technical troubleshooting skills** by working with a wide variety of electronic devices and adapting diagnostic and repair techniques to different hardware architectures and failure modes

Project Experience

UtilityCue™ - Arduino Based Assistive Appliance Instruction system Team Project | February 2026 - April 2026

- **Designed** an assistive appliance-instruction system for a client whose frequently changing attendants caused inconsistent kitchen-equipment use; developed an **Arduino-based colour-triggered audio system** to provide immediate, standardized instructions and reduce reliance on repeated verbal guidance

- **Integrated** an **AS7262 colour sensor, Arduino, DFPlayer Mini, LM386 amplifier, speaker, and microSD storage** into a functional prototype, connecting sensing, processing, and audio-output components into a complete embedded system

- **Diagnosed and resolved** incorrect audio triggers caused by **colour-sensor inaccuracies under varying lighting conditions** by iteratively testing hardware and refining system logic, improving the reliability of appliance identification in real-world environments

- **Prototyped and tested** the system through repeated hardware/software iterations, using structured troubleshooting to identify failure points and validate performance before client demonstration

- **Collaborated** within a multidisciplinary student team to translate a client's daily-use requirements into a practical engineering solution, balancing **usability, reliability, simplicity, and technical constraints**

- **Selected as 1 of the top 6 projects from 1,100+ first-year engineering students** for McMaster Engineering's **Integrated Cornerstone Design Projects in Engineering (1P13) End-of-Year Showcase**, presenting the completed prototype to faculty, peers, and the client

- **Presented** the final design and engineering process at the Year-End Showcase, communicating technical decisions, testing challenges, and the project's real-world impact to a non-specialist audience

Custom 2 storey Residential Electrical & BIM Design | AutoCAD, Autodesk Revit Personal Project | June 2025 - July 2026

- **Developed a complete 2D residential drawing package in AutoCAD** and translated the design into a full **3D Revit/BIM model from foundation through roof**, maintaining consistency between architectural drawings and the coordinated model.

- **Designed a complete residential lighting and power layout in Revit**, placing lighting fixtures, switches, receptacles, electrical panels, and equipment while organizing loads into appropriate **branch circuits and panel connections.**

- **Developed electrical floor plans, panel schedules, basic load calculations, and a simplified single-line diagram**, documenting circuit assignments and the distribution of power from the main electrical service to connected building loads.

- Applied Ontario Building Code guidance and BIM/MEP coordination principles to evaluate electrical equipment placement, spatial clearances, and potential conflicts between electrical components and architectural elements

- Independently learned and troubleshot AutoCAD and Revit workflows through repeated design iterations, integrating architectural drafting, BIM modeling, and electrical-system design into a complete end-to-end residential project.

Education

McMaster University **Hamilton ON**
Bachelor of Electrical Engineering & Management *Expected, Apr 2029*