

Abdullah Aboutaha

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EDUCATION

McMaster University

Hamilton, ON

Bachelor of Automation Engineering Technology; Advanced Diploma in Chemical Engineering; Business Certificate

EXPERIENCE

Nuclear Applications Engineer Co-op

May 2026 – Present

Eclipse Automation

Oakville, ON

- Support nuclear tooling refurbishment projects by reviewing client technical specifications, scope requirements, and project documentation.
- Assist in developing pricing estimates and proposal packages by coordinating inputs from engineering, procurement, manufacturing, and project management teams.
- Communicate with clients and internal departments to clarify technical requirements, relay project information, and support accurate proposal development.

Electrical & PLC Programming Assistant

Sept. 2024 – Present

Mac Energy

Mississauga, ON

- Reviewed electrical schematics for heater control panels using AutoCAD Electrical, supporting design verification and panel documentation.
- Collaborated with engineers to develop and test PID-based PLC temperature control for process heaters and pumps.
- Performed bench testing and troubleshooting on sensors, relays, and control logic to support reliable system operation.

Supply Chain Quality Assurance Co-op

Jan. 2024 – Apr. 2024

PepsiCo – Quaker

Peterborough, ON

- Reviewed production line layouts and proposed AutoCAD/SolidWorks adjustments to improve workflow efficiency and reduce material waste.
- Supported food safety compliance using HACCP, FSSC 22000, FSMA, GMP, ATP swabbing, sensory testing, and audit procedures.
- Participated in Lockout/Tagout, Orange Tag Procedure, and Sensory Wall Training to support safe production operations.

Owner and Manager

Mar. 2019 – Present

ABT Landscape and Renovation

Oakville, ON

- Founded and operated a landscaping and renovation business serving 340+ residential and commercial clients.
- Managed 4 full-time employees while coordinating estimates, scheduling, client communication, and project execution.
- Generated over \$450,000 in revenue within an 18-month period through project sales, maintenance contracts, and referrals.

PROJECTS

6-DOF Robotic Arm Control System | *Arduino, Servo Motors, Robotics, Serial Communication*

Jan. 2026 – Apr. 2026

- Developed a 6-degree-of-freedom robotic arm control system using Arduino-based motion control, servo actuation, and joint-angle positioning.
- Implemented serial communication commands for joint control, jogging, system state monitoring, and emergency stop functionality.

Excel Macro Production Tracking System | *Excel, VBA, QA, Production Data*

Jan. 2024 – May 2024

- Built a centralized Excel/VBA system to track raw material usage, identify expiry-date mismatches, and verify product barcode accuracy.

3-Level Elevator Control System | *FPGA, Digital Logic, Motor Control*

Nov. 2024 – Dec. 2024

- Designed a 3-floor elevator system using FPGA logic, push buttons, LEDs, reed switches, a 7-segment display, and motor driver control.

Traffic Control System | *PLC Ladder Logic, Timers, Automation*

Oct. 2023 – Nov. 2023

- Programmed PLC ladder logic for traffic signal sequencing using cascading timers and documented wiring, specs, and testing procedures.

TECHNICAL SKILLS

Programming: C/C++, Python, Verilog, VBA, Ladder Logic

PLC & Automation: Allen-Bradley PLCs, Siemens PLCs, FactoryTalk, Connected Components Workbench, Emulate3D, ROBOGUIDE

Design & Simulation: AutoCAD, AutoCAD Electrical, SolidWorks, EPLAN, Navisworks, MATLAB, LabVIEW

Electrical & Controls: Electrical circuits, PID control, sensors, relays, motor drivers, control panels

Software: Microsoft Excel, Microsoft Office, Excel Macros, technical documentation