

Abdullah Aboutaha

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Technical Skills

Project Management: Project planning, scheduling, budgeting, team leadership, client coordination, proposal development, material + labor costing, supplier coordination, cost-variance reporting

Automation & Controls: Allen-Bradley PLCs, Siemens PLCs, Ladder Logic, PID control, FactoryTalk, sensors, relays, motor drivers

Electrical & Design: AutoCAD, AutoCAD Electrical, SolidWorks, EPLAN, Navisworks, control-panel design, BOM development

Programming & Tools: C/C++, Python, Java, HTML/CSS, Verilog, VBA, MATLAB, LabVIEW, Emulate3D, ROBOGUIDE, Microsoft Excel

Education

Bachelor of Technology in Automation Systems Engineering (Co-op), Software Engineering Specialization Expected Dec. 2026
McMaster University Hamilton, ON

Advanced Diploma in Chemical Engineering, Process Automation
Mohawk College

Certificate in Business Management
Mohawk College

Relevant Professional Experience

Nuclear Applications Engineer Co-op May 2026 – Present
Eclipse Automation Oakville, ON

- Supported cost development for 4 nuclear tooling and control-panel projects, including 6 GTCS-C/SFP panels and a winning proposal valued at approximately \$1.6M.
- Supported estimating activities by pricing build-to-print and build-to-design jobs across material, assembly, quality, testing, commissioning, FAT, and shipping.
- Developed Excel/Python tools for historical cost comparison, pricing benchmarks, standardized panel costing, OCR-based drawing splitting/renaming, and automated RFQ requirement extraction.

Electrical & PLC Programming Assistant Sept. 2024 -Sept 2025
Mac Energy Mississauga, ON

- Supported control-panel design and project coordination for 6 Buttonwood Property Management building projects, reviewing electrical schematics and preparing panel documentation in AutoCAD Electrical.
- Tested PID-based PLC temperature-control systems for heaters and pumps and oversaw installation activities across projects.
- Created standardized data-entry tools for test documentation to streamline user manuals and technical documentation generation.

Supply Chain Co-op Jan. 2024 – Apr. 2024
PepsiCo – Quaker Peterborough, ON

- Analyzed incident reports for production lines, identified a glue system failure pattern, and implemented an equipment change that reduced breakdowns to primarily startup-related issues.
- Recreated the operator cleaning SOP for seasoning hopper after inspections revealed repeatedly missed areas, then led training on the revised procedure to operators.
- Collaborated with technicians to troubleshoot production breakdowns and supported quality audits and documentation under HACCP, FSSC 22000, FSMA, and GMP requirements.

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 5 full-time employees while coordinating estimates, scheduling, client communication, and project execution.

Relevant Projects

6-DOF Robotic Arm Control System Jan. 2026 – Apr. 2026

- Designed and fully 3D printed a robotic arm capable of handling 500 g payloads and performing pick-and-place operations. Programmed joint/world control modes, teach-and-repeat functionality, serial commands, system-state monitoring, and emergency-stop control.

Centralized Nuclear Quotation & Estimating Workbook May 2026 – Present

- Mapped the applications quotation process and developed a centralized workbook that consolidates project milestones, standard forms, recurring project data, and selectable costing schedules into one workflow.
- Embedded costing rules, labor-hour calculators, I/O and component-cost logic, and auto-populated fields to standardize estimates and reduce repetitive data entry; solution remains under development for applications-team use.