

ATEF ELSHARKWY

Controls Engineer

CAREER OBJECTIVE

I am a hardworking individual passionate about applying my technical skills and expertise in the field of automation, controls and artificial intelligence.

EDUCATION

University of Michigan

January, 2024 to April, 2024

Master of Science. (Degree not yet awarded)

Major: Artificial Intelligence – Machine Vision

University of Windsor

September, 2022 to August, 2023

Bachelors Engineering Technology.

Major: Mechatronics

Achievements: Graduated with Distinction

Durham College

September, 2017 to June, 2020

Ontario Colleges Advanced Diploma.

Major: Electro-Mechanical Engineering Technology

Achievements: Dean Honors Roll

Awards: General Motors of Canada Limited Automatic Award

PROFESSIONAL EXPERIENCE

Controls Execution Engineer.

October, 2023 to Present

General Motors Company.

Warren, MI, United States

- ❖ Tested, validated and audited automation systems to ensure meeting desired throughput and production requirements;
- ❖ Ensured project deliverables are met by suppliers during different project phases;
- ❖ Continuously analyzed production data and down time reports to minimize recurring alarms, reduce production roadblocks and increase system efficiency;
- ❖ Modified controls logic programs as necessary to implement approved process changes;
- ❖ Participated in safety talks and group meetings to spread awareness about importance of safety and to help minimize the likelihood of safety related incidents and injuries;
- ❖ Completed various types of engineering execution checklists that are required to meet equipment buyoff process;
- ❖ Escalated persistent issues to senior leadership and tracked it on open issues list.

Project Controls Engineer.

March, 2023 to July 2023

S and T Controls.

Kitchener, ON, Canada

- ❖ Developed PLC and HMI programs to meet the needs of Bodyshop automated operations;
- ❖ Reviewed wiring diagram and schematics of automated manufacturing cells;
- ❖ Debugged logic errors and faults on studio 5000 software;
- ❖ Understood automated process scope and requirements;
- ❖ Coordinated with senior engineers and project manager to ensure on time project delivery.

Controls Specialist.

May, 2022 to March, 2023

Onyx Engineering Inc.

Windsor, ON, Canada

- ❖ Designed and developed PLC, HMI and SCADA programs based on process control narrative for different applications such as food & beverage and waste water treatment;
- ❖ Worked with and programmed a wide variety of programmable automation controllers e.g., AB, Emerson, Modicon, and other legacy controllers;
- ❖ Used AutoCAD Electrical to generate control system schematics and design panel layouts;
- ❖ Gained strong knowledge of modern programming methods of plant-wide distributed control systems (DCS) e.g., Rockwell Plant PAX;
- ❖ Demonstrated hands-on knowledge of industrial controls systems and safety standards;
- ❖ Responded to field service calls during downtimes and resolved customer's production issues;
- ❖ Collaborated with senior professional engineers on projects that involved high degree of complexity.

Machine Vision Engineering Technician.

August, 2021 to May, 2022

Vista Solutions Inc.

Windsor, ON, Canada

- ❖ Programmed, installed and commissioned vision inspection cameras at customer's site;
- ❖ Performed required vision system audits to meet customer's standards;
- ❖ Demonstrated strong knowledge of using Matrox design assistant vision tools;
- ❖ Utilized a variety of vision inspection tools such as blob tools, model finder and edge detector for different vision inspections e.g., sealer, adhesive, weld and options verification;
- ❖ Trained plant's skilled trades personnel on how to respond to vision related alarms, troubleshoot and fine tune vision software when needed;
- ❖ Monitored and resolved vision related alarms across GM Bodyshop by reviewing down time reports and live alarms on Scada e.g. Cimplicity;
- ❖ Attended plant engineering meetings, provided status updates and addressed open issues.

Controls Technologist.

February, 2021 to August, 2021

SIDAC Automated System Ltd

North York, ON, Canada

- ❖ Designed Industrial controls systems under senior's engineer supervision.
- ❖ Used AutoCAD Electrical to generate project schematics, panel drawings and layouts.
- ❖ Selected project components and hardware based on customer's needs and budgetary requirements.
- ❖ Conducted thermal, electrical and power distribution calculations during project design phase.
- ❖ Delivered projects on time and met deadlines set by senior engineers and management.
- ❖ Assisted panel builders with wiring, labeling and assembling electrical components before shipping to customers for onsite commissioning.

VOLUNTER WORK**Meals On Wheels.**

February, 2022 to May, 2022

Community Care Durham

Whitby, ON, Canada.

Delivered meals -on weekly basis- to the elderly in the community with physical and mental health needs.

TECHNICAL TRAINING AND CERTIFICATES

- ❖ Fanuc certificate of handling tool operation and programming
- ❖ Rockwell Thin Manager Certification
- ❖ Global Common Controls Software (GCCS-2)
- ❖ Global Common Controls Hardware (GCCH-1)
- ❖ Global Robot Specifications (GRS)
- ❖ EPLAN Electric P8 Basics for GM Course v4.6
- ❖ Advanced Siemens STEP 7 - Level 1
- ❖ Advanced Siemens STEP 7 - Level 2
- ❖ Zebra Matrox Aurora Design Assistant application development training
- ❖ GM Lockout and Energy Control
- ❖ RESS 101 Safety Training
- ❖ Rockwell Controls Capability Assessment
- ❖ Thin Manager Certification

LANGUAGES

- ENGLISH – Fluent
- GERMAN- Beginner
- ARABIC- Native