

Jasraj Jassar

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Registered ASET Technologist-in-Training (T.T.) with experience in automation and control system planning, design, programming, troubleshooting, and maintenance.

EXPERIENCE

Robotics Technologist (Contract Based)

Jul. 2025–Nov. 2025

Promise Robotics

Calgary, Canada

- Contributed to the design and development of automation systems with OT networking and EtherCAT topology experience.
- Worked with the automation and controls team on PLC/HMI configuration, control logic development, and commissioning tasks.
- Prepared and maintained project documentation and reports using Jira, Confluence, and GitHub, demonstrating excellent organizational, interpersonal, and verbal and written communication skills.

Automation & Robotics Programmer

May 2024–Jul. 2025

TransCanada Turbines (Oil & Gas)

Airdrie, Alberta

- Assisted in config PLC and SCADA programming, commissioning, and networking configurations.
- Experience working as a member of a multi-disciplinary engineering team.
- Hands-on experience in electrical & instrumentation systems.

Robotics and Automation Specialist (Project Based)

Jan. 2023–Apr. 2024

E-Pro Bot

Calgary, Alberta

- Assisted experienced team members during commissioning and troubleshooting activities.
- Experience with Control system networking and VPN Configurations - **See Awards Section Below**
- Integrated robots with already existing nursing call system partnering with PX Solutions, Edmonton

EDUCATION

Southern Alberta Institute of Technology (SAIT)

Dec. 2022–May 2024

Mechanical Engineering Technology - Automation Diploma

- (EMSI-360): Learned to program and utilized PLC, SCADA, and HMI systems using Ladder Logic, Structured Text, and Sequential Function Charts.
- (MECH-205): Learned how to design and integrate electronic, pneumatic, and hydraulic circuits to build automated systems
- (EMSI-320): Gained hands-on experience programming and operating industrial robots and developed HMIs in FactoryTalk View

CAPSTONE PROJECT

Autonomous Guided Vehicle (Capstone Project) | Allen Bradley, OT Networking

May 2023–Apr. 2024

- * The research and development were fully financially sponsored by Phoenix Contact PLCNext, including manufacturing and equipment.
- * Worked on engineering design, CAD modeling, hardware sourcing, assembly, and documentation to develop an AGV.
- * Strengthened spoken and written communication while working with project sponsors, collaborating in a close team environment, and staying open to mentorship and new learning throughout the project.

TECHNICAL SKILLS & AWARDS

Languages: Python, C/C++, Major PLC Programming Languages

Automation Softwares: Studio 5000, Kuka Sim, ABB Robostudio, TwinCAT (EtherCAT),

PLC Systems: Rockwell Automation (Allen Bradley), Beckhoff, Siemens, PhoenixContact, Horner, Automation Direct PLCs.

SCADA Systems: FactoryTalk View, VTScada, AVEVA SCADA software

OT Skills: EtherCAT, ProfiNet, Modbus, Routers, Switches, OT infrastructure.

Cybersecurity Awards: SAIT School of Advanced Digital Technology – **1st Place** (2025 Cybersecurity CTF), BSides Calgary – **3rd Place** (2024 Cybersecurity CTF)