Carlos Eduardo Tofanim

Computer Engineer - Industrial Automation & Robotics

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PROFESSIONAL SUMMARY

Experienced Computer Engineer with 15+ years in industrial automation and robotics.
Specialized in PLC programming, SCADA systems, and robotics integration.
Proven track record of improving production efficiency by 35% through innovative automation solutions and cross-functional team leadership.

TECHNICAL SKILLS

Programming Languages: Python, C++, C#, Ladder Logic, JavaScript
Control Systems: Siemens, Allen-Bradley, SCADA/HMI, Motion Control
Robotics: Fanuc, KUKA, ABB Robots, ROS
Industrial Protocols: Modbus, Profinet, EtherNet/IP, OPC-UA
Software: TIA Portal, RSLogix, FactoryTalk, WinCC, Grafana

PROFESSIONAL EXPERIENCE

Senior Automation Engineer | TechManufacturing Solutions

2020 - Present

â¢ Led implementation of automated assembly line resulting in 35% efficiency improvement
â¢ Designed safety systems for collaborative robot installations
â¢ Developed custom SCADA applications for real-time production monitoring
â¢ Mentored junior engineers and established best practices for PLC programming

Automation Engineer | Industrial Systems Corp

2018 - 2020

â¢ Implemented FDA-compliant automation systems for pharmaceutical production
â¢ Reduced system downtime by 25% through predictive maintenance programs
â¢ Designed HMI interfaces for operator training and system monitoring

Control Systems Engineer | AutoTech Solutions

2015 - 2018

â¢ Developed PLC programs for automotive assembly lines
â¢ Integrated vision systems for quality control applications
â¢ Collaborated with cross-functional teams on system integration projects

EDUCATION

Bachelor of Computer Engineering

UniMetrocamp - 2020

CERTIFICATIONS

â¢ Siemens TIA Portal Certified Professional
â¢ Rockwell Automation ControlLogix Specialist
â¢ FANUC Robotics Certified Programmer
â¢ Functional Safety SIL 2/3 Certified

KEY PROJECTS

â¢ Automated Assembly Line Integration - 35% efficiency improvement