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Summary

Control Systems Engineer with 20+ years of experience in industrial automation, specializing in Allen-Bradley PLC (ControlLogix, GuardLogix) programming, HMI development (FactoryTalk View ME, AVEVA/Wonderware), and real-time system integration. Proficient in robot control (Staubli, Fanuc), motion systems, remote I/O, safety PLCs, and vision inspection (Keyence, Cognex). Strong background in commissioning, field support, and troubleshooting of complex custom machinery. Cross-functional collaborator with mechanical and electrical engineers, focused on developing robust, scalable automation solutions that exceed performance and cycle time targets.

Objectives

Seeking a technically challenging role where I can apply my experience in programming, robotics, and system integration. I'm drawn to positions that value creative problem-solving, deep understanding and hands-on collaboration across engineering disciplines. A dynamic environment with room to wear multiple hats and contribute meaningfully to complex systems is ideal.

Work Experience

Controls Software Designer

Eclipse Automation, Rock Hill, SC 11/2023 - 7/2025

- Programmed and tested Allen-Bradley CompactLogix and GuardLogix PLC systems using Eclipse Automation standards with custom code extensions for complex machine functionality.
- Integrated and configured a variety of automation components, including remote I/O, barcode readers, PowerFlex VFDs, Kinettix servo drives, and industrial camera systems.
- Integrated and updated HMI applications using AVEVA Edge Studio and FactoryTalk View ME to provide clear, operator-friendly interfaces.
- Programmed Staubli SCARA robots in VAL3 for precision micro-assembly tasks, optimizing performance well below target cycle times.
- Authored Excel VBA scripts to support configuration workflows and streamline development.
- Participated in cross-disciplinary collaboration with mechanical engineers, electrical designers, and machinists to improve tooling and develop custom calibration tools for small part manipulation.
- Performed network configuration and I/O validation, ensuring seamless system communication and robust fault recovery during commissioning.

Controls Engineer

Dynamic Design Solutions - , Charlotte, NC 9/2021 - 11/2023

- Designed, programmed, and commissioned custom PLC-controlled production machines, primarily using Allen-Bradley CompactLogix PLCs in Studio 5000.
- Conducted safety reviews of new machine designs, identifying hazards and collaborating with mechanical engineers to implement effective mitigation strategies.
- Configured remote I/O modules, sensors, and networked components,

updating electrical schematics and contributing to detailed IO layouts.
- Developed modular control logic and sequenced operations based on machine design and product tracking requirements, ensuring flexibility and maintainability.
- Programmed HMI interfaces using C-More panels and integrated Keyence and Cognex vision systems for inspection and verification.
- Programmed and tested Fanuc robots, contributing to multi-axis pick-and-place and material handling applications.
- Managed full commissioning lifecycle — including Factory Acceptance Testing (FAT), on-site validation, and post-installation support.
- Authored technical documentation and user manuals to support handover and training for operators and maintenance teams.

Control System Engineer

George T. Hall - , Las Vegas, NV 7/2013 - 8/2021

- Designed, programmed, and commissioned PLC-based control systems, with a focus on Allen-Bradley (ControlLogix, PLC-5, MicroLogix) and Modicon/Schneider Electric platforms, primarily for municipal water supply, waste water management and correctional facility control.
- Developed and integrated distributed SCADA systems using AVEVA/Wonderware System Platform, delivering secure, scalable control environments for process automation.
- Commissioned distributed control systems with analog/digital I/O over Ethernet and Modbus protocols, including radio and fiber-optic linked remote I/O.
- Provided direct customer interaction throughout projects — managing on-site work schedules and customer expectations, interpreting requirements, and maintaining strong relationships.
- Performed loop checks, network testing, and instrument calibration for factory and field acceptance testing.
- Mentored junior technicians, sharing best practices for instrument testing, documentation, and communication with the client and main office.
- Delivered responsive on-site troubleshooting and long-term support for automated systems in a variety of industrial environments.

Skills

Technical Skills

PLC & Control Systems

- Allen-Bradley ControlLogix, GuardLogix, MicroLogix, SLC 500, PLC-5
- Schneider / Modicon (Control Expert / Unity Pro)
- Safety PLCs: Keyence, Allen-Bradley GuardLogix

HMI / SCADA

- FactoryTalk View ME, C-More, AVEVA / Wonderware System Platform
- Alarm handling, tag structures, operator usability

Robotics

- Staubli Robot programming in VAL3
- Fanuc Robots (Pendant operations)
- Adept V+ Programming

	Vision Systems ● Keyence, Cognex, DVT, CVIM ● Integrated vision inspection and product verification **Motion Control & Drives** ● PowerFlex VFDs, Kinettix servo drives ● MagneMotion linear servo systems **Networking & Communication** ● Ethernet/IP, Modbus, DH+, serial protocols ● Remote I/O (hardwired, fiber, radio-linked) ● TCP/IP networking, router/firewall configuration **Programming & Scripting** ● Ladder Logic, Structured Text ● Shell scripting (*NIX), Python, and Perl ● JavaScript, VBA (intermediate, self-taught) ● limited experience with C/C++ **Cybersecurity & System Hardening** ● Air gapping, attack surface reduction, allow/block-listing ● Firewalls, access control, and security-focused OT design **OS & Platforms** ● Windows, Linux administration (server and embedded) ● *NIX tools: systemd, OpenSSH, Apache2, dpkg **Soft Skills & Strengths** ● Cross-disciplinary collaboration (ME, EE, software, machinists) ● Technical documentation and operator manual writing ● Fast learner, systems thinker, problem solver ● Calm under pressure — especially during commissioning and field troubleshooting ● Willing mentor and hands-on team contributor
Education	**Springfield Technical Community College — Springfield, MA** ● Associate in Applied Science, Electrical-Robotics Program ● Focused coursework in PLCs, robotics, and control systems **Smith Vocational High School — Northampton, MA** ● Honors Graduate, Electrical Program **University of Massachusetts, Lowell — Lowell, MA** ● Continuing Education ● Coursework in C/C++ programming, shell scripting, and UNIX/Linux system operations **Certifications & Technical Training** ● Staubli VAL3 Programming – Staubli Robotics ● Fanuc HandlingTool Operation and Programming – Fanuc America ● Wonderware System Platform 2014 & 2017 – AVEVA/Wonderware

	Self-Directed Learning ● Regularly pursue new skills through technically focused books (O'Reilly and PACKT publishing, etc.), online resources, and hands-on experimentation ● Recent topics include Python scripting (for Excel), IT & OT cybersecurity practices (Security Now podcast, Hacker News, etc.), and Ethernet network configuration.
References	**Phil Datz** Controls Engineering Manager at Eclipse Automation Cell: (803) 833-2162 phd86osu@gmail.com **Alexander Freeze** Former Supervisor at Dynamic Design Solutions Cell: 704-202-0631 afreeze3@gmal.com **Chad Smith** Controls Engineer at Eclipse Automation Cell: 803-427-2298
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