

<p>Daniel Reardon Waxhaw, NC</p> <p>Cell Phone: 978-870-7455</p> <p>Primary E-mail: daniel.reardon@gmail.com</p> <p>Online Resume: DanielReardon.com</p> <p>LinkedIn Profile: http://lnkd.in/XzNmBs</p>	<p>Summary</p> <p>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.</p> <p>Objectives</p> <p>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.</p>
<p>Work Experience</p>	<p>Controls Software Designer</p> <p>Eclipse Automation, Rock Hill, SC 11/2023 - 7/2025</p> <ul style="list-style-type: none"> • 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.
	<p>Controls Engineer</p> <p>Dynamic Design Solutions - , Charlotte, NC 9/2021 - 11/2023</p> <ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> • 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.
	<p>Control System Engineer</p> <p>George T. Hall - , Las Vegas, NV 7/2013 - 8/2021</p> <ul style="list-style-type: none"> • 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.
	<p>Maintenance Shift Lead / Automation Specialist</p> <p>Gentex Optics, Dudley, MA 2/2012 - 6/2013</p> <ul style="list-style-type: none"> • Lead a 4-man maintenance team, keeping production machinery in working order and promptly responding to downtime incidents. • Supported installation and integration of automated inspection and sorting systems using Mitsubishi SCARA and 6-axis robots, servo systems, and machine vision cells. • Worked with linear servo-driven MagneMotion conveyor systems for part transport and positioning. • Maintained and calibrated injection molding and auxiliary equipment, using CMMS, electrical, and mechanical diagnostics. • Assisted the safety team by identifying risks and implementing practical mitigation strategies. • Troubleshoot system failures using PLC analysis, relay logic, and CMMS records to identify root causes and reduce downtime.

	<p>Technical Support Representative</p> <p>Sealed Air Inc, Ayer, MA 3/2010 - 2/2012</p> <ul style="list-style-type: none"> • Developed technical training materials and conducted in-person classes on packaging machinery for field service teams and end users. • Provided phone-based technical support and diagnostics for electromechanical systems, assisting customers and field techs in real time. • Supported installations, upgrades, and retrofits at customer sites across North America. • Collaborated with engineering teams to relay field feedback and propose product improvements.
	<p>Electro-Mechanical Technician</p> <p>Schott Solar, Billerica, MA 10/2008 – 7/2009</p> <ul style="list-style-type: none"> • Maintained and modified a range of solar panel production machinery and instrumentation systems. • Diagnosed and repaired machine faults using electrical schematics, PLC logic, and mechanical inspection. • Supported engineering teams during equipment upgrades and production line improvements.
	<p>Lead Automation Technician</p> <p>SynQor, BoxBoro, MA 1/2008 - 9/2008</p> <ul style="list-style-type: none"> • Led an automation support team and trained junior technicians on troubleshooting best practices. • Supported robotic pick-and-place systems used in automated PCB assembly and testing. • Investigated production faults using SQL-based quality tracking systems and implemented corrective actions.
	<p>Electronics Automation Specialist</p> <p>Sonoco Inc., Devens, MA 4/1999 - 1/2008 and 11/2009 - 3/2010</p> <ul style="list-style-type: none"> • Maintained and troubleshooted a wide array of automated packaging and converting equipment, including PLC-based controls and machine vision systems. • Provided instrumentation support and repair services on electromechanical systems across three shifts. • Returned as a contractor during plant shutdown/relocation to provide senior-level support during off-shift coverage.
Skills	<p>Technical Skills</p> <p>PLC & Control Systems</p> <ul style="list-style-type: none"> • Allen-Bradley ControlLogix, GuardLogix, MicroLogix, SLC 500, PLC-5 • Schneider / Modicon (Control Expert / Unity Pro) • Safety PLCs: Keyence, Allen-Bradley GuardLogix <p>HMI / SCADA</p> <ul style="list-style-type: none"> • FactoryTalk View ME, C-More, AVEVA / Wonderware System Platform • Alarm handling, tag structures, operator usability

	<p>Robotics</p> <ul style="list-style-type: none"> • Staubli Robot programming in VAL3 • Fanuc Robots (Pendant operations) • Adept V+ Programming <p>Vision Systems</p> <ul style="list-style-type: none"> • Keyence, Cognex, DVT, CVIM • Integrated vision inspection and product verification <p>Motion Control & Drives</p> <ul style="list-style-type: none"> • PowerFlex VFDs, Kinettix servo drives • MagneMotion linear servo systems <p>Networking & Communication</p> <ul style="list-style-type: none"> • Ethernet/IP, Modbus, DH+, serial protocols • Remote I/O (hardwired, fiber, radio-linked) • TCP/IP networking, router/firewall configuration <p>Programming & Scripting</p> <ul style="list-style-type: none"> • Ladder Logic, Structured Text • Shell scripting (*NIX), Python, and Perl • JavaScript, VBA (intermediate, self-taught) • limited experience with C/C++ <p>Cybersecurity & System Hardening</p> <ul style="list-style-type: none"> • Air gapping, attack surface reduction, allow/block-listing • Firewalls, access control, and security-focused OT design <p>OS & Platforms</p> <ul style="list-style-type: none"> • Windows, Linux administration (server and embedded) • *NIX tools: systemd, OpenSSH, Apache2, dpkg <p>Soft Skills & Strengths</p> <ul style="list-style-type: none"> • 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	<p>Springfield Technical Community College — Springfield, MA</p> <ul style="list-style-type: none"> • Associate in Applied Science, Electrical-Robotics Program • Focused coursework in PLCs, robotics, and control systems <p>Smith Vocational High School — Northampton, MA</p> <ul style="list-style-type: none"> • Honors Graduate, Electrical Program <p>University of Massachusetts, Lowell — Lowell, MA</p> <ul style="list-style-type: none"> • Continuing Education • Coursework in C/C++ programming, shell scripting, and UNIX/Linux system operations

	<p>Certifications & Technical Training</p> <ul style="list-style-type: none"> • Staubli VAL3 Programming – Staubli Robotics • Fanuc HandlingTool Operation and Programming – Fanuc America • Wonderware System Platform 2014 & 2017 – AVEVA/Wonderware <p>Self-Directed Learning</p> <ul style="list-style-type: none"> • Currently teaching myself the Ignition SCADA system from Inductive Automation®, a highly scalable, cross platform data management and control software suite. • 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.
<p>References</p>	<p>Phil Datz Controls Engineering Manager at Eclipse Automation Cell: (803) 833-2162 phd86osu@gmail.com</p> <p>Alexander Freeze Former Supervisor at Dynamic Design Solutions Cell: 704-202-0631 afreeze3@gmail.com</p> <p>James Nguyen Former Mechanical Engineer Manager - Dynamic Design Solutions Cell: 919-412-0115 Jvnguyen14@gmail.com</p> <p>Chad Smith Controls Engineer at Eclipse Automation Cell: 803-427-2298</p> <p>Mitchell E. Benner Controls Engineer at Eclipse Automation Cell: 980-266-0330</p> <p>Ken Taaffe Controls Software Designer at Eclipse Automation Cell: 470-535-0301 k.taaffe@live.com</p>



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