

.EDUCATION

- St. Francis High School [1994-1999], Athol Springs, NY [716-627-1200]
- State University of New York at Buffalo (U.B.) [2002-2007], Buffalo, NY [716-645-3115]

.CERTIFICATIONS

- Bachelor of Science: Electrical Engineering → U.B., Dept. of Engineering and Applied Sciences. (2007) *ABET, *MSCHE
- Functional Safety Engineer: Machinery → TUV Rheinland (2020)
- Six Sigma: Green Belt → Ford Motor Company (2004)
- ABB Robotics – IRC5 Welding I and II. → ABB (2019)
- NFPA 70E → Ferguson Electric (2007, 2012), General Motors (2017, 2020, 2022)

.WORK EXPERIENCE

General Motors – Lockport Components [05 / 2017 – Present] (Direct)

Sr. CONTROLS ENGINEER

Responsible for escalated breakdown response management and technical support of the Manufacturing Process, Continuous Improvement project execution and implementation, and Capital Project management.

- o Gained experience with Automated Presses (small), Cell Assembly Operations, Metalworking and Assembly, Electric and Gas Fired Oven Processes (NFPA86 / FM), Robotic Welding, Mill Forming, Heat Exchanger Assembly, Leak Testing via Mass Spectrometry, Stamping, RFID.
- o SME – Braze Process Controls, ABB Robotic Systems, Machine Vision, Safety Control Systems.
- o Lead Electrical Engineer for several projects, including:
 - ABB FlexArc Weld Cell Common Welder Platform
 - Obsolescence upgrade of Legacy Braze Furnace Lines and New-Build of Next Generation Braze Lines.
- o Integration of complex safety circuits for compliance with FM / NFPA-86 / NFPA-70 / ISO-12100 / IS-13850, etc.
- o Task Based Risk Assessment and mitigation for various projects.
- o Served as Mentor to two Interns (1 – long term Co-Op / 1 – Summer Intern) and a handful of Junior Engineers.

RS Automation, LLC. [02 / 2015 – 05 / 2017] (Direct)

LEAD ELECTRICAL CONTROLS ENGINEER

Responsible for Capital Project Management, deployment of personnel and resources, quoting / bidding contracts, in addition to lion's share of day to day EE duties.

- o Developed Ozone sanitation and wastewater treatment systems for use in environmentally friendly cleaning operations.
- o Various large automation and high level Capital Projects.
- o Built strong relationships with Customers – primarily Sr. Engineers / Engineering Managers / and Project Engineering Managers at various factories throughout the USA and Canada.
- o Championed Safety – maximized opportunities to optimize and maintain a safe work site both in the office/shop and at Customer sites.
- o Managed non-union Riggers, Electricians, Pipefitters / Welders on a contract basis.
- o Managed non-union in-house Electricians for machine-build, panel-build, and equipment commissioning operations.
- o Managed Capital Projects from infancy through commissioning (and aftersales support).
 - Pitching / Definition of Scope / Quoting / Customer Interface / Design / Build / KPI's and Milestone tracking / Commissioning.
- o Managed junior engineers and interns.

Milk Bone, Big Heart Pet Brands [07 / 2014 – 02 / 2015] (Direct)

MAINTENANCE SUPERVISOR ELECTRICAL

Responsible for all Electricians within the Plant, ensuring Manufacturing Uptime and Excellence, responding to Quality Issues, and management of CI Projects.

- o Troubleshooting and maintenance of legacy Modicon, TI (Siemens / CTI), and Allen Bradley controllers; and a variety of HMI's (TCP, Xycom, et. al.)
- o Gained experience with rotary molding equipment, vacuum transfer of dry materials, gas fired oven/furnace processes (NFPA-86 / FM), High Speed Packaging, Robotic Palletization and Material Handling.
- o Managed approximately 15 IAM Union Skilled Trades Electricians.
 - Broke ground on an apprenticeship program within the organization.
 - Enforced behavioral changes within the team through the use of discipline and the existing Labor Contract.

Responsible for Engineering and Design of controls and automation (PAC / PLC / HMI / SCADA / DISCRETE), deployment and documentation of new machine builds, extensive retrofits of existing processes, and proprietary service equipment.

- Electrical Lead for the plant expansion at BR Foods in Williamson, NY.
- Migrated Municipal Water Treatment Plant to a secure cell network control architecture.
- Customer-minded attitude lead to picking up extensive additional work for the company.
- Gained experience providing technical support and customer service by phone / remotely.
- Managed non-union Riggers, Electricians, Pipefitters / Welders on a contract basis.
- Responsible for hitting project milestones, build deadlines, and performance of equipment and systems to specification.

Sorrento Cheese - Lactalis American Group [2008 – 06 / 2013] (Direct)

**TECHNICAL SPECIALIST
(Electrical Engineering)**

Responsible for low voltage power distribution, controls and instrumentation, software, deployment and documentation for existing Facilities and Manufacturing equipment as well as new equipment (new machine builds / retrofits / launches). At this facility, Engineering is a professional craft within the Maintenance Department, and not an independent entity.

- Gained experience with a wide variety of technologies:
 - HTST Pasturization, Separation and Clarification, Ultra Filtration, Reverse Osmosis, Batch / Blend operations, High Speed Packaging (cup filling, vacuum form filling, and flo-wrapping), High Speed Scale systems (Eagle and Ishida), Case Erecting, Case Packing, and Case Sealing, Robotic Material Handling, Robotic Palletization, Complex Conveyor Integration, Ammonia Refrigeration, Machine Vision, Laser Dimensioning, and Industrial Barcode Scanning.
- Gained experience with the New York State Pasteurized Milk Ordinance / NYS Agrimarkets Inspection Process / and FDA regulations for electronic record keeping (FDA CFR 21 Part 11).
- Devoted over 4,000 man-hours to the development and deployment of an independent Historian, Data Acquisition, and Machine Control server platform / software package; and released it as OSS.
- Created workshops / semi-formal classroom style training for Skilled Tradespersons, and administered classes on a regular basis.
- Advisor to (and Member of) to the Packaging Maintenance Continuous Improvement Team.
- Frequent stand-in for Maint. Supervisors (to cover absences / vacations, etc). In that role, I was responsible for 10 to 15 Teamsters Skilled Tradespersons (Multi-skilled designation).
- Electrical lead for the launch of boutique / premium cheese dept.
- Recognized for pioneering innovation in the workplace.

Goodyear Dunlop Tires, North America LTD. [2007] (Contract EGW)

MAINTENANCE ENGINEER

Responsible for the up-keep and running-condition of the Stock Prep / Extrusion area of the Plant.

- Excelled at restoring machines to operational readiness; gained my earliest experience with Reliance Automax / Modicon 984 & Quantum / and Allen Bradley PLC-5 controllers.
- Planned, Engineered, and executed various small to medium size Continuous Improvement projects.
- Cut unplanned downtime by approx. 50% for the Extrusion department (resulting in a 10% increase in Production capacity) by polling Machine Operators and department personnel for their top issues, and then strategically targeting those issues during planned Maintenance windows.
- Supervisor of approx. 20 UAW Skilled Tradespersons (Electrical / Mechanical / Rigging / and Fabrication).

Ford Motor Company, Buffalo Stamping Plant [2004-2005] (Direct)

**MATERIAL HANDLING ENGINEER
(Jr. - Co-Op)**

At the discretion of the Sr. Material Handling Engineer, I supported his responsibilities in maintaining systems that brought product and materials into and out of the facility.

- Developed departmental SOP's, Product Packaging Standards, and maintained for ISO-9001 compliance.
- Represented department at several Kaizen efficiency exercises and RCA events.
- Launch lead - material and equipment migration for the first Ford Edge.
- Supervisor of approx. 10 UAW Skilled Tradespersons and Staff Advisor to UAW Natural Work / Improvement Group.

SpinelliCreations.com [2002 → 2020] (Self Employed)

THE SC SERVER PROJECT

- A ground-up build small server farm, providing a meaningful contribution to the Open Source Software movement and community (the movement which gave us modern day Android, and other such innovations).
- Served over 1.6 Peta-Bytes of Open Source software.
- Official North American distribution partner of: The Apache Software Foundation, GNU & The Savannah Project, CentOS Linux, Repoforge (RPMForge), RPMFusion