

# Timothy P. Murphy

Control Systems & Automation Engineer | 35+ Years of Progressive Experience

## PROFESSIONAL SUMMARY

Over 35 years of progressive experience in Electrical Control Systems Design and Engineering with a demonstrated proficiency in successfully leading multiple major capital projects and implementing automated control systems. Managed all phases of various projects including cost estimates, project planning, purchasing, and organizing task assignments. Experienced in the generation of control hardware specifications, control panel designs, schematic wiring diagrams, including PLC, HMI, SCADA, SQL, and SSRS programming and integration. Developed state-of-the-art manufacturing information systems using 1D & 2D barcode labeling and reading to provide real-time information for quality assurance and production management. Over twenty years of experience in custom machine building and hands-on troubleshooting of electro-mechanical machinery. Proactive, detail-oriented, with excellent inter-personal communications and a strong focus on cost, quality, and schedules.

## TECHNICAL SKILLS

<b>SCADA Software:</b>	GE iFix, Cimplicity, Plant Edition, AB RS View32
<b>PLC Programming:</b>	Allen Bradley ControlLogix, SLC500, Siemens, Modicon, GE Fanuc
<b>HMI Touch Screens:</b>	GE Viewstations, Quickpanel, AB, Proface, Xycom, Industrial PCs
<b>Servo Systems:</b>	Allen Bradley, Emerson, Indramat, Ormec, Delta, AC & DC Drives
<b>Barcode Scanners:</b>	Honeywell, Welch Allyn, LaserData, Data Logic
<b>Barcode Printing:</b>	Loftware, Printronix, Intermec, Sato, Zebra
<b>Networking:</b>	LANs, Routers, Switches, Wireless, Ethernet
<b>Laser Systems:</b>	Precision Measurement, Industrial Cutting, Welding, Marking
<b>Automatic Controls:</b>	Hydraulic, Pneumatic, Temperature, Robotics, Vision, Sensors & Actuators

## PROFESSIONAL EXPERIENCE

### Automation & Controls Supervisor

January 2024 – October 2025

*UNC Dairy · West Seneca, NY*

- Programmed automated systems including HMIs, PLCs, SCADA, SQL databases, and Real-time Reporting Systems.
- Designed Virtual Machine architectures and Ethernet Network solutions for Dairy and Cultured Products manufacturing.
- Led integration of automated machines and electrical design systems across production environments.

### Control Systems Engineer

May 2015 – October 2023

*IMA LIFE North America Inc. · Tonawanda, NY*

- Programmed SCADA systems, HMIs, PLCs, SQL databases, and SSRS Reporting for custom Freeze Drying machines in the pharmaceutical industry.
- Designed and integrated Virtual Machine and Ethernet Network architectures for state-of-the-art pharmaceutical equipment.

### Owner / Project Manager / Sr. Controls System Engineer

January 2008 – May 2015

*Data-N-Able Inc. · West Seneca, NY*

- Developed Manufacturing Information Systems interfacing PLCs to HMIs, barcode scanners, and printers.
- Networked plant floor equipment to server computers and main SQL/Oracle databases.
- Integrated system processes into intranet websites to report real-time work-in-process, quality assurance, and scheduling data.
- Utilized Virtual Machine Technology to enable information flow throughout manufacturing processes.
- Developed cloud-based Inventory Control System interfacing UPC databases with an Android barcode scanning application.

### Sr. Manufacturing / Controls Engineer

January 2000 – December 2007

*Delphi Thermal Systems · Lockport, NY*

- Utilized 2D DataMatrix barcodes to serialize every part produced, tracking labeled products for quality control through manufacture, testing, and shipping.
- Installed and commissioned new production equipment including braze furnaces, radiator core builders, clinch machines, and mass spectrometer leak test machines.
- Implemented Lean Manufacturing, ISO 9000, and QS9000 quality standards.

### **Project Engineer / Controls Engineer**

October 1996 – December 1999

*General Motors Corporation (Harrison Radiator / Delphi) · Lockport, NY*

- Managed installation of \$12 million automated aluminum and stainless-steel brazing systems utilizing vacuum braze furnaces, de-oiling, and heat-age processes.
- Developed automated material handling systems interfacing automatic load trucks to conveyor systems and process equipment.
- Supervised all union skilled trades and outside contractors through successful project startup and commissioning.
- Tuned complex multi-zoned furnaces and PID process controls; wrote PLC programs with self-diagnostic messaging for improved uptime.

### **Plant Electrical Engineer**

June 1989 – September 1996

*Dunlop Tire Corporation / Sumitomo Rubber (SRI) · Tonawanda, NY*

- Installed and maintained automatic tire production equipment including tire building and curing presses.
- Programmed and troubleshoot tire test equipment including Tire Uniformity Optimizers (TUOs), automatic balancers, and X-Ray machines.
- Redesigned and programmed automatic material handling and conveyor systems.

### **Engineering Technician**

1987 – 1989

*Flex-O-Vit USA · Angola, NY*

- Redesigned and retrofitted industrial abrasive manufacturing equipment including 13 ovens, high-pressure stamping presses, and web processing/cutting equipment.
- Engineered and programmed new control panels to NEMA standards; built control panel for grinding wheel destructive test machine.

### **Electrical Technician**

1985 – 1987

*D.A. Griffin Corporation · West Seneca, NY*

- Custom machine building of automated production equipment for automotive, heat exchanger, welding, and assembly industries.
- Built laser welding/heat treating system utilizing a CNC servo-controlled positioning system.

### **Maintenance Foreman**

1983 – 1985

*Snap-Tite Hydraulics · Erie, PA*

- Supervised second-shift maintenance of all production machinery for high-pressure hydraulic valve machining and assembly.
- Responsible for all troubleshooting of electrical and mechanical repairs.

### **Electro-Mechanical Maintenance**

1978 – 1980

*VanDekamp Frozen Foods · Erie, PA*

- Troubleshoot electrical and mechanical repairs of food processing equipment including mixing, flash frying, freeze, and packaging machinery.

### **Mold Maker Apprentice**

1976 – 1978

*Buffalo Molded Plastics · Akron, OH*

- Completed two-year machinist apprenticeship covering blueprint reading, technical math, and machine shop theory; operated all types of CNC machining equipment.

## **EDUCATION**

2001 – 2005

**Bachelor of Science, Automated Manufacturing / Information Systems Technology**  
Empire State University of New York

1986 – 1989

**Associate of Applied Science (AAS), Automated Manufacturing / Robotics Technology**  
Erie Community College, Buffalo, NY

1985 – 1986

**Liberal Arts Studies**

Daemen College, Amherst, NY

## AWARDS & RECOGNITION

- 2004** **InfoTech Niagara Buffalo Emerging Technology Award** – Manufacturing Information Systems utilizing 2D bar-coding for real-time production information and quality traceability to the office desktop.
- 2005** **Delphi Global Excellence Award** – Manufacturing Information Systems Label Error Proofing System using Lean Manufacturing Principles for Zero Defects to the customer (General Motors).
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