

# Theodore (Ted) Guarriello

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**Expert IT Manager/Engineer/Developer with 25+ years of experience in Network design and security, Database, Telecom, Embedded Systems and Process Control programming.**

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## SUMMARY OF QUALIFICATIONS

### *Automation Design & Embedded Systems – 15+ years experience:*

- Exceptional aptitude for new technologies and manufacturing processes.
- Embedded systems & HMI design in C/C++/C#, Assembly and many others.
- Strong Understanding of Software Development Life Cycle (SDLC).
- Exceptional testing, troubleshooting, debugging and commissioning skills.
- Able to work in team environment including revision and version control.
- Design/read/interpret controls schematics: Electrical, Electronic & Fluid Power.
- Electrical/Electronic circuit design/troubleshooting - including PLC control systems.
- Analysis & Modeling systems: Labview, TopSpice, Automation Studio Mechanical.
- PLC Application/Integration and programming: GE Fanuc, A/B, Siemens, and others.
- Application of all types of AC and DC motor control including PID positioning.
- Servo/Stepper Application/Integration/Programming.
- CAD/CAM/CNC operation/implementation/training (AutoCAD & SolidWorks).
- Application and control of proportional Hydraulics & Pneumatics.
- Understanding of OSHA/ANSI/ADA codes and compliance.
- Equipment design and integration of all power transmission components.
- Full understanding of machining and metal-working processes and equipment.

### *Project Management - 10+ years experience:*

- Proven team leadership abilities.
- Understanding of operation accounting, project justification and risk analysis.
- Experienced in specification/procurement process – strong ability to manage vendors
- Skilled with productivity tools such as Microsoft Project & Critical Path analysis.
- Excellent technical writing, course design and training skills.
- Proactive, communicative approach to shop-floor change implementation.
- Knowledge and Understanding of safety, fire, building, accessibility and EPA codes.
- Excellent Verbal and written communication skills including public presentation.

### *Other technical Skills:*

- Plant Infrastructure design including electrical power, process water and air systems.
- Troubleshoot industrial and commercial controls to component level.
- HVAC/R design, troubleshooting and maintenance.
- Test equipment including: power analyzer, oscilloscope, thermography, vibration.
- I.T./Network/Telecommunication design, integration and security.

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## EDUCATION:

**Bachelor of Science in Business Administration/Information Technology (BSBA/IT)**

4.0 GPA ~ Colorado Technical University

Colorado Springs, CO

### WORK EXPERIENCE:

2007-2008 - Hagerstown Community College: Instructor – Industrial/Information Technology

- Develop program of study and course content.
- Teach Electronics, Fluid Power, Industrial Maintenance, Safety/Code compliance, Advanced Motor Theory and Basic I.T. Courses

2002-2007 - Nursery Supplies Inc: Vice President of US Operations

- Oversee 4 domestic manufacturing plants.
- Responsible for all U.S. operations except accounting and sales (700+ employees)

2001-2002 - Nursery Supplies Inc.: Vice President of Engineering

- Oversee department of eight engineers/designers, ten-man tool building operation and machine/automation assembly operation.
- Managed two large-scale manufacturing plant design/build projects.

1993-2001 - Nursery Supplies Inc.: Multi-Discipline Engineer

- Developed several plastic processes and products resulting in 8 US Patents.
- Designed high-speed molded product trimming and packaging equipment and controls resulting in 70% labor reduction.
- Implemented product Quality Control systems using Leak-test, Machine-Vision and high-speed weight measurement equipment.
- Developed embedded applications in C/C++ and other languages for closed-loop process control and computer-integrated-manufacturing.
- Designed/Upgraded processing equipment controls that outperformed OEM equipment by 50% and reduced product variation to 1/10 of industry standard.

1980-1993 - Nursery Supplies Inc.: Maintenance Technician to Manufacturing Engineer

- Key plant troubleshooter for all process problems.
- Implementation of Proactive/Preventive Maintenance Practices.
- Developer of production efficiency based incentive systems.
- Actions directly led to 120% increase of productivity and 60% reduction in maintenance costs with no significant capital investment.

1989-1993 - West Digital Systems: Owner/Consultant

- Assemble Special Purpose PC to Customer Specifications.
- Design/Install LAN's – Implement and administer Novell Servers.
- Develop custom DOS/Windows and Embedded software for process control.
- Develop custom database programs for business operations.

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### CERTIFICATIONS:

Eight (8) US and foreign patents for inventions in manufacturing and construction

Master Electrician's License

EPA Universal and MVAC Refrigeration Technician License

Authorized OSHA 501 Outreach trainer

Microsoft Project Certificate

**Currently pursuing Six-Sigma Black Belt**