

# Theodore (Ted) Guarriello

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**Hands-on Engineering Manager with strong multi-discipline design and engineering skills.**

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**STRATEGIC LEADERSHIP • TECHNICAL INNOVATION • COST/RISK MANAGEMENT**

## SUMMARY OF QUALIFICATIONS

*Automation Design – 15+ years experience:*

- Exceptional aptitude for new technologies and manufacturing processes.
- Mechanical Equipment design and integration of power transmission components.
- Design/read/interpret controls schematics: Electrical, Electronic & Fluid Power .
- Application of automatic QC systems including Vision, Gravimetric & Leak testing.
- Electrical/Electronic circuit design/troubleshooting - including PLC control systems.
- Application of all types of AC and DC motor control including PID positioning.
- Servo/Stepper Application/Integration/Programming.
- Application of Industrial Hydraulics & Pneumatics.
- CAD/CAM/CNC operation/implementation/training (AutoCAD & SolidWorks).
- Full understanding of machining and metal-working processes and equipment.
- Specification of proper metals/materials for economical and reliable system operation.
- Design/specification/integration of high-speed parts handling systems.
- Integration/connection of down-stream equipment to production machinery.
- Integration of production and secondary equipment to shop-floor data systems (CIM).
- Evaluation/update/modification of plant infrastructure to support add-on equipment.
- Skilled with process flow, material flow and motion analysis/improvement.

*Project Management - 10+ years experience:*

- Understanding of operational accounting, project justification and risk analysis.
- Excellent verbal and written communication skills including Technical Writing.
- Experienced in specification/procurement process – strong ability to manage vendors.
- Skilled with organizational tools such as Microsoft Project & Critical Path analysis.
- Proactive, communicative approach to shop-floor change implementation.
- Knowledge and Understanding of safety, fire, building, accessibility and EPA codes.
- Proven team leadership abilities.

*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.
  - Network/Telecom design, integration and security (please request IT resume).
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## EDUCATION:

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

4.0 GPA ~ Colorado Technical University

Colorado Springs, CO

Currently pursuing Six-Sigma Black Belt Certification

### **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 & MVAC (608/609) Refrigeration Technician License

Microsoft Project Certificate

Authorized OSHA 501 Outreach trainer

Currently pursuing Six-Sigma Black Belt