

# Sean Christopher Morrissey

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## LEAD MANUFACTURING AUTOMATION / NEW PROJECT SPECIALIST • GLOBAL RESEARCH

Results Driven Product and Technology Leader, Strategic Visionary with Strong Communication, Presentation and Leadership Skills. Inspiring common goals in a cross functional environment.  
Open to travel or relocation (Boston or New York City Preferred). Referrals upon request.

## KEY LEADERSHIP STRENGTHS

Creative Technical Leader • Collaborator of Cross Functional Schedule and Cost out Initiatives  
New Product / New Technology Implementation • Project Manager / Engineer • System Integrator  
Inventor • Cost Analyst • Computer Aided Drafting / Manufacturing • Supply Chain Management  
Manufacturing / Metrology Specialist Reverse Engineering • Six Sigma Greenbelt • Signal Analysis

## PROFESSIONAL EXPERIENCE

**General Electric**, Niskayuna, NY 2016 - Current  
*Global Research Center HQ, Manufacturing Technologies Group*

### **Manufacturing Automation Lead Engineer** – Automation Team – (2016 – Current)

Area leader, process engineer, and system level analytical thinker for automation strategies.

- Lead 4 colleagues in a startup environment, for a critical business assessed at \$2BB value.
- Set gold standard for other leaders in detailed process maps & plant layout, vendor & equipment list, KPI database, budget, security protocols, technology down selections, de-classified part models for vendor collaboration, and equipment specifications & purchasing.
- Developed new high-energy CT & digital radiography X-ray system with principal scientists.
- Consulted industrial circuit breaker NTI team, achieved manufacturing & assembly should-cost target delta for a new disruptive product design.

**General Electric**, Schenectady, NY 2010 - 2016  
*Power Generation Products HQ & Manufacturer of Large Steam Turbine & Generators*

### **Advanced Manufacturing Engineer** - Rotors & Airfoils Lifecycle COE – (2014 - 2016)

Promoted to drive engineering, services, product management, sourcing, and manufacturing to one strategy for product cost, new product introduction, and advanced technology execution.

- Collaborated with leadership teams, introduced modifications, upgrades, and new tools to cost analysis software, contributing to \$11MM in annual product cost out.
- Supported new product introduction on key rotating components, including latest 2 flagship turbine platforms, for producibility, value engineering strategy, and fulfillment.
- Directed engineering and manufacturing project schedules and technical details.
- Supported new technology introduction, resulting in new patents/designs on turbine technology.

### **Manufacturing Engineer** - New Product/Technology Introduction Team – (2010 - 2014)

Provided functional, technical, and process leadership for supply chain operation of steam turbine & generator manufacturing processes, including machine and process improvement.

- Project engineer of services rotor weld cell, generating \$12MM in new site revenue in 1<sup>st</sup> year.
- Design & execution of R&D studies contributing to various companywide technology roadmaps.
- Championed inspection & quality applications, resulting in patented & trade secret systems.
- Installed & trained leaders on additive, drastically improving project cycles & realization.
- Development, documentation, training of various manufacturing tools & process improvements.
- Coordinated technology strategies, P&E investments, upgrades, maintenance & diagnostics.

**University of Massachusetts Lowell**, Massachusetts, Lowell

2007 - 2010

**Engineer, Programmer, Machinist, Technician** - Mechanical Engineering Cyber Lab

- Design, manufacturing, programming of closed loop robotic experimental systems, including robotically controlled tensile testing, dynamic / PID response, stepper control, and relay systems.

**SKILLS**

Teamwork	– Team communication, coordination, design process, documentation
Report	– Microsoft Excel, Word, PowerPoint, Project, Minitab, Lean, Six Sigma
Cost Analysis	– Microsoft Excel, Access, Apriori
CAD	– Unigraphics NX, SolidWorks, Pro/DESKTOP, Pro/ENGINEER
CAM	– Unigraphics NX, Mastercam, Vericut, ABB Robot Studio, RobCAD, Stratasys
Programming	– LabVIEW, MATLAB, SIMULINK
FEA	– Unigraphics NX, ANSYS, Solidworks, FEMAP
Signal Analysis	– NIMAX, RT PHOTON, LabVIEW
Mfg. Equipment	– Fortus FDM, ABB Robot, FANUC Robot, CNC, Knee Mill, Lathe, Auto Welding
Metrology Equipment	– X-ray & CT, Trackers, Arms, laser scanners, light scanning, photogrammetry, laser sensors, encoders, Custom gages, Standard Precision gages
Reverse Engineering	– FARO CAM, Spatial Analyzer, Aicon 3D, Geomagic, Flexscan3D, VG Studios
Application Expertise	– Forging, Casting, Machining, Additive, Welding, Stamping, Assembly, Inspection

**EDUCATION & CONTINUING PROFESSIONAL DEVELOPMENT**

**BS, Mechanical Engineering**, 2010, GPA - 3.088  
University of Massachusetts Lowell, Lowell, MA

2015 - Finkl Forging Forum Course

2015 - Thriving in a Matrixed Environment GE Course

2015 - Additive Manufacturing Users Group Conference

2013 - Stratasys Insight Training Course

2013 - Project Management GE Course

2013 - Mentor, FIRST Robotics High School Competition, Team Saratoga

2012 - HVCC Global supply Chain Technical Course

2011 - Kennametal Metalworking Applications Course

2011 - 6-Sigma Greenbelt Course

2010 - Vibrations Modal Analysis Graduate Course

2009 - Multi-magnitude load cell transducer design and testing

Low-cost, high signal-to-noise ratio, achieved highest sensitivity in 2010 engineering class

2009 - Dynamic modeling of mechanical, electrical, hydraulic, &amp; thermal system reports

Achieved highest final project simulation accuracy in 2010 engineering class

2008 - Three position double-dwell linkage, cam design projects

Achieved highest final group linkage project grade in course history

**PERSONAL INTERESTS**

Robotics • Illustration • Computer Design • Invention • Startups • Hacker Spaces • TED Talks • Paintball