



Myles Mills

Manufacturing Engineer, Steam Turbine Rotor Assembly

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SUMMARY

Manufacturing engineer with 10 years supporting heavy industrial **equipment**, rotating machinery, customer owned repair products, and complex assembly environments. Leads manufacturing process development, steam turbine rotor repair, new build assembly, welding upgrades, machining integration, tooling control, work instructions, operator qualification, and product qualification. Coordinates Engineering, Quality, **Project Management**, machining, balance operations, and production teams through demanding repair programs. Uses **analytical problem solving**, production evidence, takt and cycle analysis, 5S, process control, equipment reliability, safety, and ergonomic review to improve execution. Maintains build books and project records, resolves shop floor issues, and guides less experienced colleagues through small projects. Brings practical leadership that can support safe production, schedule control, quality, cost, EHS, and reliable delivery across **rotor assembly** operations.

EXPERIENCE

Senior Manufacturing Engineer, Rotating Equipment

Mohawk Rotating Equipment Works 📅 May 2023 - Present 📍 Troy, NY

Leads manufacturing engineering for heavy rotating equipment repairs and new build assemblies, guiding controlled processes, tooling, documentation, production readiness, and cross functional delivery.

- Translated engineering requirements into controlled **rotor repair** processes, tooling plans, **build books**, and production sequences.
- Resolved complex shop floor issues using inspection findings, manufacturing data, and cross functional technical reviews.
- Coordinated welding and tooling upgrades with Engineering, Quality, Project Management, machining, and **balance operations**.
- Created operator **work instructions** and training pathways, then partnered with Quality on demonstrated process qualification.
- Converted recurring disruptions and operator feedback into practical **equipment reliability**, ergonomic, and process control improvements.
- Maintained **project folders** with technical decisions, qualification evidence, process requirements, and manufacturing status throughout repairs.

Manufacturing Engineer, Turbine Repair

Empire Turbine Repair Services 📅 January 2020 - April 2023 📍 Schenectady, NY

Developed **standardized plans** for steam turbine rotor repairs, integrating inspection findings, machining, welding, assembly, tooling, qualification evidence, and shop floor execution.

- Connected inspection findings with machining, welding, and assembly requirements through standardized steam rotor repair plans.
- Integrated **machining** cells into repair schedules through defined handoffs, reducing avoidable waiting between **production** stages.
- Validated **tooling**, equipment, and process requirements against **engineering** specifications before routine shop floor use.
- Authored visual work instructions that helped operators repeat technically varied repair processes with clearer checkpoints.
- Led small improvements involving cycle time, 5S, tooling availability, process controls, and safer equipment interaction.
- Organized product qualification evidence, resolved technical questions, and coordinated **Quality** approval before process release.

Manufacturing Process Engineer, Industrial Assemblies

Capital District Industrial Systems 📅 July 2017 - December 2019 📍 Albany, NY

STRENGTHS

- ⚙️ **Shop Floor Leadership**
Stepped into difficult rotor repairs, clarified next actions, and gave operators useful technical direction when production pressure rose.
- 👥 **Cross Functional Delivery**
Connected Engineering, Quality, machining, balance operations, and Project Management so repair decisions reached production clearly.
- 🔧 **Practical Problem Solving**
Started with inspection evidence and operator feedback, then turned recurring disruptions into workable process changes.
- 🎓 **Operator Qualification**
Built clearer training paths and partnered with Quality, helping operators gain confidence before independent process execution.
- ♥️ **Continuous Improvement**
Used takt, cycle observations, 5S, and ergonomic reviews to make constrained operations safer and easier to run.

SKILLS

Manufacturing Engineering

Steam Turbine Rotors

Rotor Assembly Repair Operations

Welding Upgrades

Machining Integration Tooling

Process Control Work Instructions

Operator Training

Product Qualification

Project Management EHS

Equipment Reliability Ergonomics

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Senior Manufacturing Engineer, Rotating Equipment at Mohawk Rotating Equipment Works (3.4 Years)

● Manufacturing Engineer, Turbine Repair at Empire Turbine Repair Services (3.2 Years)

● Manufacturing Process Engineer, Industrial Assemblies at Capital District Industrial Systems (2.4 Years)

● Manufacturing Engineering Associate, Fabrication at Hudson Valley Fabrication (1 Years)

Supported large industrial assemblies and customer owned repaired components, owning work instructions, tooling, troubleshooting, production readiness, and improvement activity across multi step flows.

- Owned instructions, tooling, troubleshooting, and production readiness for large industrial assemblies and repaired components.
- Analyzed recurring shop issues through process observations, dimensional results, and operator feedback to identify constraints.
- Coordinated engineering changes with Quality and **production**, updating controlled instructions before implementation.
- Applied **takt** and **cycle** analysis to focus improvement work on bottlenecks within multi step production flows.
- Facilitated **5S** and ergonomic reviews, converting operator input into safer fixture, layout, and storage solutions.
- Guided newer colleagues through documentation, **process control**, and **structured problem solving** during small projects.

Manufacturing Engineering Associate, Fabrication

Hudson Valley Fabrication 📅 June 2016 - June 2017 📍 Poughkeepsie, NY

Supported engineers responsible for industrial fabrication and assembly processes, preparing shop documentation, checking instructions, gathering production evidence, and maintaining repair records.

- Prepared shop documentation and verified current instructions at points of use for fabrication and assembly.
- Updated approved **work instructions** with clearer tooling, sequence, inspection, and operator checkpoints.
- Collected cycle time observations that helped engineers evaluate workflow constraints within defined **production** operations.
- Maintained tooling and process records for customer owned **repair** components, improving traceability across shop execution.
- Applied basic 5S practices to improve work area organization and safer material placement.
- Documented shop issues, gathered operator input, and presented evidence to experienced manufacturing engineers.

PROJECTS

Steam Rotor Welding Upgrade 📅 2025

Led a focused welding upgrade effort, coordinating technical reviews, tooling needs, machining interfaces, quality evidence, schedule checkpoints, and shop floor readiness.

Repair Process Standardization 📅 2022

Built repeatable repair plans that connected inspection findings, machining, welding, assembly, operator instructions, qualification records, and production handoffs.

LEADERSHIP & AWARDS

- Lean Six Sigma Green Belt recognition, applied cycle analysis, 5S, and process improvement methods across industrial repair operations.
- Senior engineering leadership assignment, trusted with welding upgrades, operator qualification, project records, and cross functional rotor repair delivery.
- Small project leadership recognition, supporting newer colleagues and building consensus across Engineering, Quality, machining, and production.

EDUCATION

Bachelor's Degree in Mechanical Engineering

Rochester Institute of Technology 🎓 GPA: 0 📅 2016 📍 Rochester, NY

Coursework: Manufacturing systems, mechanical design, materials science, engineering analysis

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2021
- Mechanical Engineering Degree Qualification 📅 2016

TECHNICAL SKILLS

- **Manufacturing Processes:** Rotor assembly, steam turbine repair, new build manufacturing
- **Machining Operations:** Machining integration, machining cells, dimensional inspection
- **Welding Operations:** Rotor welding, welding upgrades, weld repair planning
- **Process Documentation:** Build books, project folders, work instructions
- **Production Control:** Process controls, production sequences, shop floor controls
- **Lean Methods:** Lean principles, 5S, takt analysis
- **Time Improvement:** Cycle time analysis, workflow constraints, bottleneck review
- **Equipment and Tooling:** Tooling control, equipment reliability, fixture improvement
- **Quality Systems:** Product qualification, operator qualification, quality signoff
- **Safety and Ergonomics:** EHS, safety controls, ergonomic review
- **Project Delivery:** Project management, project timelines, resource planning
- **Engineering Coordination:** Engineering changes, technical reviews, design specifications

PROFESSIONAL AFFILIATIONS

- Professional manufacturing engineering community, sharing practical methods for process control, equipment reliability, and shop floor problem solving.
- Industrial rotating equipment network, exchanging repair planning, machining integration, welding, and assembly practices with peer professionals.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST