# PETE MILLER

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## MANAGER OF DESIGN ENGINEERING/ SENIOR PROJECT ENGINEER

Summary: Dynamic Engineering leader with 15+ years' experience driving innovation and operational excellence across manufacturing, steel processing, and custom machinery design. Proven strategist with a talent for managing diverse teams and large-scale projects from concept to installation, consistently delivering tailored, high-impact solutions. Skilled at boosting productivity, reducing downtime, and elevating quality while championing a culture of safety and continuous improvement. Passionate about 3D modeling, reverse engineering, and custom fabrication, blending creativity with technical expertise to solve complex challenges and exceed client expectations. Known for transforming ideas into results and making a lasting impact on every project. *Key skills:*

Design Engineering & Innovation • Project Management • CAD/CAE Software • Product Lifecycle Management (PLM)
Team Leadership & Development • Cost Optimization & Budget Management • Quality Assurance & Compliance
Manufacturing Processes • Lean Manufacturing • Client & Stakeholder Management

## CAREER HIGHLIGHTS

- **Leadership & Team Development:** Directed multi-disciplinary teams in engineering, production, and maintenance, achieving measurable gains in safety, productivity, and operational efficiency.
- **Project Management Success:** Delivered multi-million-dollar capital projects on time and within budget, including equipment installations, custom tooling design, and manufacturing upgrades for diverse industries.
- **Operational Improvements:** Reduced unplanned downtime by 65% in a steel manufacturing facility and implemented cost-saving measures, managing a $350K monthly maintenance budget.
- **Innovative Engineering:** Designed custom machinery and material handling systems, enhancing manufacturing capabilities and meeting complex client needs in industries such as ASME pressure vessels, water storage, and marine manufacturing.
- **Quality Control Leadership:** Improved product quality and process standards through robust quality management systems, surpassing customer expectations and reducing errors.
- **Customer-Centric Solutions:** Partnered with clients to develop tailored engineering solutions, fostering long-term relationships and driving repeat business.
- **Safety Initiatives:** Led safety programs that significantly reduced incidents and cultivated a strong culture of workplace safety.

## PROFESSIONAL EXPERIENCE & ACHIEVEMENTS

Landmark | Decatur, TX 2014–2024
**Project Manager/Manufacturing Engineer**

Spearheaded a team of 8 CAD designers, press operators, and welders, successfully managing high-stakes, custom projects from initial estimation through tool design, fabrication, and final delivery. Drove operational excellence across complex manufacturing processes, including ASME pressure vessels, power transmission towers, water towers, and marine structures. Directed multi-shift press operations, overseeing recruitment, training, and skill development to optimize production on 750 Ton C-Frame presses. Led the successful installation and modification of advanced equipment, including conducting in-depth research, quoting, and ROI analysis. Designed precision tooling and dies for custom forming projects, ensuring exceptional client satisfaction and on-time delivery. Innovated material handling solutions, including 80-ton turntables and de-coilers, streamlining processes and improving project efficiency.

- Excelled in multiple roles, acting as Project Manager, Project Engineer, and Quality Control Manager simultaneously, overseeing all aspects of custom forming projects to ensure seamless execution and client satisfaction.
- Designed tooling to press and fabricate a 30-ft diameter aluminum antenna for wireless power transfer using TESLA technologies.
- Developed a turntable system to install a 12-ft diameter coil within a 100-ft tower.
- Applied tool and die making expertise alongside blacksmithing skills to create custom ship shapes, including bulbous bows.
- Enhanced team capabilities through introduction of 3D modeling and design using Autodesk Inventor and Vault.

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Delta Steel Technologies | Irving, TX 2013
**Director of Engineering**

Led the engineering and design of steel processing equipment, including temper mills, levelers, shears, un-coilers, slitters, coil cars, and stackers. Managed a multi-disciplinary team of electrical, hydraulic, IT, and mechanical engineers to ensure timely and accurate delivery of equipment documentation. Supported the sales team with budgeting and scheduling for multi-million-dollar projects while providing technical expertise to promote advanced technologies. Collaborated closely with manufacturing to enhance profitability, safety, and equipment quality. Fostered cross-training and continuous improvement within the engineering team, driving innovation and increasing operational efficiency.

- Delivered engineering leadership for the design and on-time delivery of complex steel processing systems, improving profitability and safety while elevating team capabilities through cross-training and collaborative leadership.

Nucor Steel | Tuscaloosa, AL 2004–2013
**Project Engineer/Maintenance Manager**

Supervised a team of 12 Engineering Co-Ops and Millwrights, managing capital projects for new equipment, facility expansions, and upgrades, while leveraging previous experience as Hot Mill and Melt Shop Mechanical Supervisor to optimize operations and ensure seamless project execution across multiple departments. Developed and implemented safety protocols, improving work environments and significantly reducing recordable and lost time rates. Managed a $350,000 monthly maintenance budget, driving cost-effective strategies to balance quality and profitability. Fostered team development through coaching and goal setting, building a high-performing maintenance team capable of operating with minimal supervision.

- Led continuous improvement initiatives to enhance mill efficiency, successfully reducing unplanned downtime in the Melt Shop from 7% to 2.5%.
- Managed installation of roll bending equipment in the Roll Shop and co-designed modifications for improved thickness control of 6-ft diameter rolls.
- Oversaw installation and design collaboration for a new flying shear in the Cut to Length Department.
- Designed numerous improvements to accelerate slower equipment, including the plate stacker.
- Created budget and layout for a $2B Melt Shop and Plate Mill project, involving global travel to identify best practices.

*Additional Experience:*

***On Site (Nucor Steel) Project Manager / Engineer*** *– Clayton Landis Company, Souderton, PA / Crawfordsville, IN*
***Design Engineer / General Manager*** *– Creative Product Handling, Inc., Pottstown, PA*
***Engineering Manager*** *– ITNAC Corporation, Birdsboro, PA*
***Plant Manager*** *– Jet Hot Coatings, Norristown, PA*
***Area Supervisor*** *– United Parcel Service, Parsippany, NJ / Daytona, FL*

## EDUCATION & TRAINING

**Bachelor of Science in Aerospace Engineering, Minoring in Computer Science**, Embry-Riddle Aeronautical University – Daytona, FL
*Coursework completed while working nights to fund education*

## CERTIFICATIONS

Project Management Certificate Program, The University of Alabama – Tuscaloosa, AL (2012)
Technical Project Management Certification
Applied Principles of PLC Certification
NFPA Arc Flash Electrical Safety Certification
Trench Safety Certification
Critical Command and Critical Incident Management Certification
Hot Rolling Fundamentals Certification

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## AFFILIATIONS & COMMUNITY INVOLVEMENT

ASME - American Society of Mechanical Engineers (Present)

AWRF - Association of Wire Rope and Fabricators

AIST - Association for Iron and Steel Technology

Co-Op Interview Team

## TECHNICAL SKILLS

**CAD & 3D Design Software:** SolidWorks, Autodesk Inventor, AutoCAD, Pro-E, Fusion 360, MudBox, Maya, 3dMax, Artec Studio, Idea Maker

**Mathematical & Analytical Tools:** Mathcad, Visual Basic, LISP (including programming tools using LISPs, Scripts, and Macros)

**Project Management & Office Productivity:** Microsoft Project, MS Office Suite (Word, PowerPoint, Excel with VB add-ons), Microsoft Access

**Manufacturing & Engineering Standards:** Lean Manufacturing techniques, ISO 9000 practices, OSHA regulations, ASME and ANSI standards (Dimensional and Geometric Tolerance)

**Machine Design & Troubleshooting:** Excellent mechanical aptitude for machine design and troubleshooting, Certified welder with hands-on experience in heavy industrial environments.