

# M A L L O R Y   B A R T O W

MECHANICAL ENGINEER & QUALITY PROGRAM MANAGER

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**Quality Program Manager** and **Mechanical Engineer** with 5+ years of experience launching and managing robust quality programs across the semiconductor and oil & gas industries. Proven to drive efficiency and results: **improved quality issue reporting by 58% globally**, managed a **\$2M Quality Program** with a **98% nonconformance pass rate**, and **eliminated 27,000 administrative hours annually** by automating quality documentation. Holds a B.S. in Mechanical Engineering from LSU, specializing in complex program management and data-driven Quality Management Systems. My goal is to apply my expertise managing complex projects while delivering exceptional results to **my passion of connecting communities with nature, rewilding urban landscapes, and environmental activism**.

## LEADERSHIP & IMPACT

- Led the Intel Global Quality Joint Construction Execution Team (JCET) and managed Quality Programs with 50+ individuals across 3 Intel sites.
- Drove **\$10M ROI** with AI automation solutions (BIM to Field clash technology) for real-time quality field issue identification.

## SKILLS

- **Leadership:** Skilled in prioritizing, delegating tasks, managing conflict, and leading multi-site/country Quality Manager teams to achieve goals.
- **Technical Communication:** Recipient of the Distinguished Communicator award (LSU), recognizing expertise in conversing, writing, & presenting technical information.
- **Software/Tools:** Proficient in Power BI, BIM360/ACC, Smartsheet, Microsoft Office Suite, Bluebeam, EXTO, Social Media Development (TikTok, Instagram, YouTube, Canva, CapCut), and Google Suite.

## EXPERIENCE

### QUALITY PROGRAM MANAGER, Intel, Semiconductor Industry

Feb 2022 - Present

- **Global Quality Leadership:** Leader of the Global Quality JCET, standardizing SOPs, KPIs, and processes. Reallocated redundant field inspection requirements saving approximately **1,500 hours** of inspector time, developed an updated revision to the General Contractor Contractual Quality Requirements, and shifted the global quality culture.
- **Program Management:** Managed a **\$2M Quality Program** on a \$320M Brownfield project, ensuring compliance and incorporating corrective actions into Intel Standards. Drove RCAs on Quality Excursions for future lesson learned implementation.
- **Site & Field Quality:** Managed the Site Quality Program, ensuring **98% Nonconformance Pass Rate** on over 100,000 inspections for IMCS/Code/Design compliance. Refined the Site Quality Management System with documented procedures and high-risk checklists.
- **Software Innovation:** Developed a Quality Software solution that provided process transparency and a **\$10.4M ROI**.

### QUALITY ASSURANCE ASSISTANT MANAGER, AM Technical Solutions, Inc., Semiconductor Industry

June 2021 - Feb

2022

- Managed MEPCSA 3rd party inspection firms and supported Intel QA Managers with IMCS updates, code research, and metric tracking.
- Coordinated AHJ permitting for all 350 installed tools and tracked construction quality via PBO field walks.

### QUALITY ASSURANCE REPRESENTATIVE, AM Technical Solutions, Inc., Semiconductor Industry

Feb 2021 - June 2021

- ASNT SNT-TC-1A VT Level II certified and provided quality assurance for pressure and weld inspections, confirming compliance with ASME B31.3 code, ASME BPVC Section IX, ASME BPE, and Intel Specifications.

### PART-TIME RELIABILITY ENGINEER, Chevron: Renewable Energy Group, Renewable Industry

May 2019 - May 2020

- Led corrosion mitigation efforts, developing recommendations via ultrasonic thickness analysis and writing RFPs for a \$250k project, while standardizing the Painting & Coating Specification to prevent CUI/SCC in compliance with API 571.
- Streamlined quality control by establishing a daily inspection schedule and developed an ASME training module (covering Sections VIII, V, and IX) to focus Project Managers on critical features and pitfalls.

## ACADEMIC PROJECTS

### SHELL ECO-MARATHON, Capstone Senior Design Team

- Led the Chassis Capstone Senior Design Subteam to engineer a vehicle achieving 217 mpg, award as a Contender for the Ben Burns Jr. Memorial award.
- Managed the chassis subteam and project finances, completing the vehicle **within a \$10,000 budget** and achieving a **29% weight reduction** through parametric design in MATLAB and iterative FEA in SolidWorks.