



MECHANICAL ENGINEER

Motivated Mechanical Engineer with Experience in Lean Six Sigma, Manufacturing & Quality Control.

 (713) 820-2968

 elsamonsuy@yahoo.com

 LinkedIn

TECHNICAL SKILLS

- CAD Software (SolidWorks, AutoCAD, MS Project)
- International Project Management
- Construction Project Coordination
- Lean Six Sigma Methodologies
- Quality Control & First Article Inspection
- Cross-Cultural Team Leadership
- Budget Management & Risk Mitigation

ELSA NLANG MONSUY

Mechanical Engineer • University of Texas at Tyler
Graduate

OBJECTIVE

Dynamic Mechanical Engineer and 2019 University of Texas at Tyler graduate with exceptional international project management experience. Successfully managed \$1M+ construction projects in West Africa while coordinating cross-cultural teams across multiple time zones. Proven expertise in Lean Six Sigma processes, advanced CAD design, quality control, and technical leadership. Trilingual professional with fresh engineering perspective and hands-on experience in challenging international environments. Seeking to leverage comprehensive technical skills and international project management experience to drive engineering excellence and operational success.

EDUCATION

B.S. Mechanical Engineering

University of Texas at Tyler
Tyler, TX • 2014-2019

LANGUAGES

English (Fluent)

Spanish (Native)

French (Conversational)

CERTIFICATIONS

Six Sigma Green Belt

Quality Control Specialist

PROFESSIONAL EXPERIENCE

Mechanical Engineer at Systel, Houston, TX — Aug 2021 - Present

- Applied mechanical engineering principles to develop comprehensive testing protocols for electro-mechanical systems, validating design specifications and identifying critical failure modes
- Conducted precision mechanical and thermal testing on complex electronic assemblies, performing stress analysis and component validation to ensure design integrity
- Collaborated with design engineers to optimize mechanical interfaces and thermal management systems, reducing component failure rates through rigorous engineering analysis
- Implemented automated testing procedures integrating mechanical measurement systems with electronic validation, improving testing accuracy while applying engineering fundamentals
- Created detailed engineering documentation and failure analysis reports, leveraging UT Tyler mechanical engineering education to resolve technical issues

Construction Project Manager at Diamonds Blocks Services, Malabo, EG — May 2019 - Aug 2021

- Managed complex international construction projects in West Africa, delivering projects on time and within budget
- Generated project specifications and conceptual designs using MS Project and SolidWorks
- Coordinated cross-cultural teams of contractors and engineers across multiple time zones
- Implemented continuous improvement initiatives for existing tooling and equipment
- Monitored project budgets exceeding \$1M+ and provided detailed monthly stakeholder updates
- Developed strategic mitigation plans to prevent potential delays and cost overruns

Quality Control Inspector at AmTex Machine Product, Houston, TX — Jan 2017 - Feb 2018

- Performed comprehensive quality inspections ensuring consistency across all manufactured products
- Conducted first article inspections and routine dimensional inspections using precision instruments
- Executed weekly requirement evaluations coordinating with material operations and planning teams
- Ensured non-conforming products were properly identified, documented, and processed
- Conducted online specification checks, dimensional inspections, and tool calibration audits

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Texas at Tyler, Tyler, TX

2014 - 2019

- ABET-accredited mechanical engineering program with comprehensive 5-year curriculum
- Relevant coursework: Thermodynamics, Materials Science, Manufacturing Processes, Quality Control, CAD Design
- Senior Design Project: Led team in manufacturing process optimization achieving theoretical 15% efficiency improvement
- Recent graduate with current engineering knowledge and modern methodologies

ACADEMIC & PROFESSIONAL ACHIEVEMENTS

- **International Project Management:** Successfully managed \$1M+ construction projects in West Africa with cross-cultural teams
- **Engineering Excellence:** Completed rigorous ABET-accredited mechanical engineering program at University of Texas at Tyler (2019)
- **Leadership Experience:** Led international teams of contractors and engineers across multiple time zones
- **Quality Expertise:** Earned Lean Six Sigma Green Belt certification with hands-on quality control experience
- **Trilingual Professional:** Native Spanish, fluent English, conversational French - proven asset for international projects
- **Technical Proficiency:** Advanced skills in SolidWorks, AutoCAD, MS Project, and precision measurement systems
- **Recent Graduate Advantage:** Fresh engineering education with latest methodologies and modern industry standards



WHY CHOOSE A NEW GRADUATE ENGINEER?

Strategic Investment in Your Future

Fresh UT Tyler engineering graduate brings latest methodologies, rapid learning ability, and long-term growth potential to your engineering team.

- **Latest Knowledge:** Current with modern engineering practices, industry standards, and emerging technologies
- **High Adaptability:** Quick to learn company processes and eager to develop specialized expertise
- **Fresh Perspective:** Innovative thinking without outdated practices - ideal for process improvement initiatives
- **Long-term Value:** Grows with your company, building institutional knowledge and loyalty over time