

Nizar Al-Masalha

+1 (979) 969-7104 | n_masalha@tamu.edu | linkedin.com/in/nizar-al-masalha-25aa7624b

EDUCATION

Texas A&M University, Mays Business School
Master of Business Administration (MBA)

College Station, Texas
Aug 2027

Texas A&M University, College of Engineering
Bachelor of Science in Mechanical Engineering
GPA: 3.53/4.0

College Station, Texas
May 2026

Honors: Cum Laude, Undergraduate Research Scholar, Pi Tau Sigma

EXPERIENCE

Chiyoda Corporation

Doha, Qatar

Piping Engineering Intern

Jun 2026 – Aug 2026

- Prepared Test Block Diagrams for a \$10M brownfield LNG project by defining hydrotest boundaries across 6 P&IDs and documenting 65 piping lines, supporting accurate hydrotest planning and safe execution
- Calculated pipe thickness using ASME B31.3 across 5+ train units, ensuring designs met code requirements
- Analyzed 15+ piping systems using CAESAR II, identifying critical stress points, verifying system integrity

Parsons Corporation

Doha, Qatar

Mechanical Engineering Intern

Jun 2025 – Jul 2025

- Performed hydraulic analyses for a \$5B infrastructure project by calculating total head, pump system curves, and duty points, selecting optimal pumps for 4+ sewage and drainage stations to maximize operating efficiency
- Conducted HVAC load analysis using HAP, sizing 10+ AHUs and FCUs to meet project cooling requirements
- Designed 10+ fire protection systems to NFPA standards, ensuring compliance across hazard classifications

Project Controls Intern

Jul 2025 – Aug 2025

- Verified installed works against IFC drawings, identifying payment discrepancies and preventing overbilling
- Reconciled contractor invoices against approved quantities, correcting discrepancies to prevent overpayments

SIEMENS

Doha, Qatar

Digital Industries Intern

May 2025 – Jun 2025

- Configured PLC hardware by assigning 20+ digital and analog I/O signals, enabling system commissioning
- Designed process control architectures using ISA-95 hierarchies, standardizing control logic across systems

LEADERSHIP & INVOLVEMENT

Pi Tau Sigma – Honor Society

Doha, Qatar

Vice President

May 2025 – Aug 2026

- Revived Pi Tau Sigma after 1 year of inactivity by rebuilding a 5-member board and restoring operations
- Organized the annual induction ceremony by managing event logistics and execution, inducting 40+ members

Shell Eco-marathon

Doha, Qatar

Internal Combustion Engine Engineer

May 2025 – Aug 2026

- Designed and fabricated electromechanical components using SolidWorks and 3D printing, reducing physical prototype production costs by 80% and development time by 60%, supporting rapid design changes
- Developed electrical architecture for sensor power, ground, and signals, enabling accurate ECU calibration
- Optimized fuel efficiency by calibrating ECU fuel and ignition parameters, reducing fuel consumption by 10%
- Enhanced CVT performance by tuning spring stiffness and roller weights, raising powertrain efficiency by 6%

SKILLS, ACTIVITIES & INTERESTS

Software: SolidWorks, CAESAR II, AutoCAD, HAP, Microsoft Excel, MATLAB, Python, LabVIEW

Technical Skills: Piping Design, Stress Analysis, Hydraulic Analysis, P&IDs, PFDs, HVAC Design, Fire Protection

Certifications & Training: CAESAR II Fundamentals, Google Project Management, Shell Project Management