

Jermel Edwards

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EDUCATION

LAMAR UNIVERSITY

Beaumont, Texas

B.S. Mechanical Engineering, Minor-Mathematics

PROFESSIONAL EXPERIENCE

Kiewit, P66 Rodeo Renewed & Montana Renewables | Houston, Texas

May 2022- Present

Field/Office/Design Engineer II (Estimating, Mechanical Equipment/Electrical Devices, Coatings, Heat Trace, Insulation, & Structural Steel)

- Reviewed/Executed all Design Engineering documents consisting of PID's, Isometrics, General Arrangement Drawings, RFI's, and Change Orders.
- Planned, scheduled, coordinated, and managed sub-contractor/discipline specific job duties.
- Developed and implemented automated systems for tracking the progress of sub-contractors/disciplines resulting in a productivity increase of 15%.
- Developed comprehensive estimates for Electrical Devices and Mechanical Equipment, contributing to projects valued over \$6 billion.
- Upheld OSHA/site-specific safety protocols and communicated the requirements to Key-Craft, Foreman, Superintendents, and other Contractors on the job site.
- Engineered/Designed 3D models, Process Flow Diagrams, Piping & Instrumentation Diagrams, and Piping/Equipment Layouts ensuring compliance with ASME, API, and Client Specifications for Oil and Gas Projects.

Aldine Independent School District | Houston, Texas

August 2021- May 2022

Gap Educator

- Delivered STEM-aligned lessons and maintained discipline for students in the Gap Program.
- Maintained classroom structure and supported students in academic and personal development.
- Monitored student progress and documented academic/behavioral data in compliance with district and state regulations.
- Mentored, motivated, and inspired students by modeling positive expectations and preparing them for future success.

Mourik Inc. | Houston, Texas

February 2021- June 2021

Refinery Catalyst Technician/Indorama Celanese Project

- Successfully compiled equipment specifications for plant safety, operations, and maintenance of facility industrial reactors.
- Reduced contamination hazards by creating an approved methodology that prevented wasted resources resulting in saved man hours.
- Facilitated/Supervised entry to confined spaces to perform maintenance, inspection, testing, and repairs.
- Performed safety analysis for all confined space operations and equipment close outs.

John Holland | Houston, Texas

March 2020- September 2020

(Remote) Engineer Intern Program

- Successfully analyzed sector requirements for Railway, Infrastructure, and Building Processes.
- Collaborated with professionals to optimize subcontract rates, bill of quantities, and material calculations.
- Managed criteria for high level projects to ensure completion of all schematic annotations and documentation.

Pennum Industries | Houston, Texas

May 2017- August 2017

Pipe Stress Engineer Intern

- Managed and organized documents to ensure design compliance with industry codes, ASME B31.3 Process Piping specifications & client standards.
- Collaborated with mechanical engineers, technicians, and maintenance departments to optimize pipe flow and system reliability.
- Assisted process engineers/stress engineers using computational fluid dynamics and stress analysis for multiple pipeline systems including turbines and engines.
- Conducted detailed calculations and stress analysis for different piping systems assuring code compliance.

Abraham Plumbing Co. | Garland, Texas

July 2015- December 2016

Field Technician

- Directed the preparation of all job sites, including the loading, installation, and cleaning of all materials.
- Negotiated and consulted information about products, services, and cost amongst companies & buyers for future projects.

EXECUTIVE LEADERSHIP

- National Society of Black Engineers | Secretary
- Cardinal Community | Secretary
- Shell Eco Marathon Project | Assistant Project Manager

VOLUNTEER EXPERIENCE (300 + Hours)

- Erial's College Mission
- Hurricane Harvey Volunteer
- Mentors of Tomorrow
- Habitat for Humanity
- Young Successful Men Group
- Aldine Parents Outreach

PROFESSIONAL & TECHNICAL SKILLS

- API/ASME/ISO/OSHA Codes
- Fusion 360, SolidWorks, & Navisworks
- AutoCAD/ CADWorx
- Process Improvement
- ANSYS, ASPEN HYSYS, & Caesar II
- Power BI
- Client Relation Building
- Mathcad
- Data Analytics Excel, SQL, Tableau
- Mechanical Design
- Bluebeam Revu/ InEight Suites
- Microsoft Office Suites
- Civil & Process Engineering
- MATLAB & Simulink

CERTIFICATIONS & COURSES

- TWIC License
- Autodesk Inventor 2022 Training
- Excel Essential Training
- Agile Methodologies
- Mastering AI in the Workplace
- Project Management Foundations