

Matthew Dubea

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EXPERIENCE

Ernest P. Breaux Electrical, New Iberia / Jackson, MS | Assistant Project Manager | 2025 - Present

- Support \$30M+ in Jackson/JXN Water electrical infrastructure across OBC SCADA, Corrosion Control, Chemical Building, Treatment Process Renewals, remote-site, and J.H. Fewell work.
- Coordinate EPB field crews, subcontractors, materials, instrumentation, equipment, and work sequencing around critical-path priorities to maintain daily progress.
- Price WCDs/RFCs from Jacobs, Wharton-Smith, field conditions, and plant operations; assemble change-order proposals with estimates, backup, scope notes, and drawing redlines.
- Track proposal logs, drawing revisions, material deliveries, weekly meeting action items, subcontractor work, and monthly billing to support approvals and timely payment.

Safelite AutoGlass, Scott, LA | Auto Glass Technician / ADAS Calibration Specialist | 2022 - 2024

- Completed 2,600+ windshield replacements and 1,500+ ADAS/LiDAR calibrations to OEM requirements with 98% QA/QC performance.
- Reduced cycle time 15% by improving tool layout, preparation workflow, and technician handoff process.

Ernest P. Breaux Electrical, Plaquemines / New Iberia, LA | EHB Electrician / Machine Operator | 2019 - 2021

- Installed MV/LV panels, conduit, cable tray, steel supports, and grounding for Shintech 34.5 kV harmonic-filter yard.
- Built copper grounding/lightning-protection grid and routed 800+ ft of conduit/cable tray while supporting daily reports, JSAs, and field QC.

Chicago Bridge & Iron (CB&I), Baton Rouge / Plaquemines, LA | Instrument Man / Rodman | 2017 - 2018

- Surveyed 500+ foundations on Shintech \$1.4B ethane cracker expansion using Trimble total station, GPS, and laser levels.
- Verified anchor-bolt layouts/elevations to within 1/16 in and produced as-built documentation for engineering review.

Triad Electric & Controls, Baton Rouge, LA | Electrical Apprentice | 2015 - 2017

- Installed 8,000+ ft of conduit and terminated wiring for field devices, junction boxes, MCCs, and control panels during plant work and shutdowns.

PROJECTS

Racing Tricycle: Design and Fabrication | mtdubea.github.io/trike | 2025

- Fabricated 4130/1018 steel frame; validated FoS = 2.2 with SolidWorks FEA and machined key parts to within 0.005 inch.
- Applied DFM/DFA and reused MTB components; reduced design BOM cost 60%, and won 1st place in the annual Acadiana 500 Race in New Iberia, LA.

Multi-Sensor Payload System | mtdubea.github.io/mechatronics | 2024

- Built Arduino Python UAV payload for timed release at specified temperature ≥ 32 deg C and range < 10 in.
- Integrated IMU, thermistor, ultrasonic sensor, PID servo, isolated power rails, and preflight for reliable actuation.

Autonomous Rescue Robot | mtdubea.github.io/robot | 2023

- Led mechanical design and Python integration for an autonomous rescue robot that completed five course tasks.
- Fabricated boom/solenoid retrieval system and tuned stepper PID to reduce overshoot 70%; earned 2nd in functionality design.

EDUCATION

- University of Louisiana at Lafayette - B.S. Mechanical Engineering, Minor Mathematics | May 2025
- UCL, London, UK - Study Abroad in Energy Systems and Engineering Design | Summer 2024

CONTINUOUS LEARNING

- FE Exam - Mechanical (NCEES) | Expected: Aug 2026

CERTIFICATIONS

- CSSC: Six Sigma Black Belt | 2025
- ASME: Hydrogen Piping & Pipelines, Boiler & Pressure Vessel, GD&T, BPV Code: NDE (Section V) | 2025
- Dassault Systemes: Certified SOLIDWORKS Associate (CSWA) | 2023
- OSHA: 10-Hour General Industry | 2019

SKILLS

RFCs/Change Orders, RFIs, Submittals, Scheduling, Estimating, Vendor/Subcontractor Coordination, AutoCAD (2D/3D), Revit/BIM, MS Project, Excel, SAP/ERP, SolidWorks, CATIA 3DX, Siemens NX, ANSYS Granta, MATLAB & Simulink, Python & C++, PLC, Robotics/Automation, P&ID, GD&T, Root Cause Analysis, Lean Six Sigma

INVOLVEMENT

College of Engineering - S.A. College of Engineering Ambassador (ULL) 2023-2026 | ASME 2023-2026 | Louisiana Engineering Society (LES) 2024-2026 | SME 2024-2026 | ASTM 2025-2026