

Ezekiel McLaughlin

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SUMMARY

Commissioning Engineer with nine years of field experience supporting medium speed natural gas and **diesel reciprocating engines**, generator sets, and auxiliary systems across power generation and **Oil and Gas** environments. Leads installation audits, startup, functional testing, calibration, operational readiness, and contractual performance testing across mechanical, electrical, control, engine, and generator interfaces. Applies **Application and Installation guidelines**, engineering drawings, EHS practices, data analysis, **root cause analysis**, and structured corrective action during complex customer site deployments. Coordinates EPC contractors, OEM partners, project managers, technicians, and plant representatives during extended North American assignments. Produces clear commissioning reports, punch lists, warranty records, test evidence, and technical recommendations. Combines hands on troubleshooting with practical training, respectful customer communication, and disciplined field representation that protects safety, schedule, equipment reliability, and contractual results.

EXPERIENCE

Senior Commissioning Engineer

January 2023 - Present

Gulf Meridian Energy Services

Houston, Texas

Lead field commissioning for medium speed natural gas engine generator packages across power generation and Oil and Gas sites. Own installation readiness, startup, **functional testing**, calibration, load testing, **performance validation**, customer coordination, technical reporting, and turnover activities. Guide technicians and customer personnel during extended deployments while protecting safety, schedule, equipment reliability, and contractual obligations.

- Led G20CM34 package **commissioning** from installation readiness through final customer acceptance onsite.
- Audited engine, generator, piping, auxiliary, electrical, and control installations against A&I drawings.
- Planned startup, calibration, load testing, and readiness checks with EPC teams.
- Diagnosed package faults through **operating data**, measurement checks, and root cause analysis.
- Consolidated performance evidence, **punch lists**, warranty records, and turnover reports for customers.
- Guided technicians and operators through safe **troubleshooting** practices during multi week deployments.

Commissioning Engineer

May 2020 - December 2022

RedRock Generation Solutions

San Antonio, Texas

Commissioned natural gas and diesel generator packages for industrial and distributed power projects. Managed installation verification, energization readiness, functional testing, calibration, startup troubleshooting, performance testing, daily coordination, and turnover documentation. Worked closely with EPC supervisors, **project managers**, OEM specialists, and **customer representatives** to resolve issues without losing milestone visibility.

- Commissioned natural gas and diesel generator packages from verification through performance testing.
- Reviewed mechanical, electrical, instrumentation, and control interfaces before equipment energization.
- Executed protective function, auxiliary, engine control, and generator interface tests.
- Investigated **startup** faults using operating data, fault history, and **structured problem solving**.
- Coordinated EPC, OEM, project, and customer priorities while closing punch items.
- Prepared **status updates**, **technical findings**, test records, and turnover packages for acceptance.

Field Service Engineer

July 2018 - April 2020

Lone Mesa Engine & Power

Midland, Texas

Serviced high speed and medium speed natural gas and **diesel reciprocating engines** supporting **Oil and Gas** production and industrial power applications. Delivered inspections, mechanical troubleshooting, sensor checks, calibration, post repair testing, operating trend review, warranty documentation, and customer recommendations. Built trusted site relationships through clear explanations, safe work practices, and realistic repair expectations.

- Serviced high speed and medium speed reciprocating engines at industrial customer sites.
- Performed inspections, sensor checks, **calibration**, **troubleshooting**, and post repair operational tests.
- Diagnosed recurring performance concerns through fault history and operating trend review.
- Supported generator and auxiliary checks before stable customer equipment handoff.
- Documented field findings, parts requirements, warranty observations, and service **recommendations**.
- Explained **technical findings** clearly, helping customers plan repairs with confidence.

Associate Field Engineer

June 2017 - June 2018

Bayou Industrial Power

Baton Rouge, Louisiana

Supported field service and startup for diesel and natural gas engine generator equipment under senior engineer supervision. Gathered operating readings, verified installations, performed calibration checks, maintained **test records**, and supported troubleshooting at industrial facilities. Developed practical customer communication, documentation discipline, and EHS awareness through frequent site assignments.

- Supported **startup** activities for diesel and natural gas engine generator equipment.
- Gathered operating readings, inspection observations, and fault information for escalation.
- Verified installation details against drawings, service literature, and readiness checklists.
- Performed calibration verification, mechanical inspections, and supervised post maintenance test runs.
- Maintained service reports, test sheets, **punch lists**, and equipment records.
- Applied site **EHS** requirements and work controls during customer assignments.

PROJECTS

North American Generator Performance Validation 📅 2026

Reliable power starts with disciplined field evidence. Led a distinct performance validation initiative that connected operating data, functional test records, customer observations, and contractual requirements across generator systems. Findings supported clearer recommendations, safer handoff decisions, and stronger trust between technical teams and plant stakeholders.

Engine Package Readiness Framework 📅 2024

Good commissioning gives people confidence before equipment carries a real operating load. Developed a practical readiness framework for mechanical, electrical, control, engine, generator, and auxiliary checks. Structured records helped teams surface open actions earlier and communicate status clearly during extended industrial deployments.

LEADERSHIP & AWARDS

- Recognized by customer teams for clear technical guidance during extended commissioning deployments.
- Selected by field leadership to guide technicians and operators through safe equipment troubleshooting.
- Earned repeat customer confidence through accurate reports, realistic repair expectations, and dependable site communication.

EDUCATION

Bachelor's Degree in Mechanical Engineering

2017

Louisiana State University GPA: 0

Baton Rouge, Louisiana

Coursework: Thermodynamics, Fluid Mechanics, Electrical Systems, Control Systems, Mechanical Design

CERTIFICATIONS

- OSHA 30 Hour General Industry 📅 2022
- NFPA 70E Electrical Safety Training 📅 2024

TECHNICAL SKILLS

- **Engine Systems:** G20CM34, medium speed engines, high speed engines
- **Fuel Systems:** natural gas engines, diesel engines, reciprocating engines
- **Generator Equipment:** generator sets, generator interfaces, load testing
- **Commissioning Methods:** startup, functional testing, performance testing
- **Installation Standards:** A&I guidelines, engineering drawings, vendor documentation
- **Control Systems:** engine controls, instrumentation, protective functions
- **Electrical Safety:** NFPA 70E, energization checks, electrical interfaces
- **Safety Compliance:** OSHA 30, EHS requirements, site work controls
- **Analysis Methods:** data gathering, operating trend review, root cause analysis
- **Field Documentation:** commissioning reports, punch lists, warranty records
- **Project Coordination:** EPC coordination, OEM coordination, customer representatives
- **Industrial Applications:** power generation, Oil and Gas, distributed power

SKILLS

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|-----------------------|--------------------------|-------------------------|-----------------------|
| • Commissioning | • Generator Sets | • A&I Guidelines | • Performance Testing |
| • G20CM34 | • Power Generation | • Startup | • Calibration |
| • Natural Gas Engines | • Oil and Gas | • Functional Testing | • Root Cause Analysis |
| • Diesel Engines | • Installation Oversight | • Operational Readiness | |

PROFESSIONAL AFFILIATIONS

- Member, National Society of Professional Engineers, supporting ethical engineering practice and continuing technical growth.
- Participant, power generation service communities, sharing field lessons across commissioning, maintenance, and customer support teams.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST