



Matthew Rem

PE, CFEI, FAACDP

Senior Managing Engineer

Department

Engineering Services

Tel: (832) 977-8820

Email: matthew.rem@yaeservices.com

Locations

Houston, TX

Biography

Matthew obtained his Electrical Engineering degree from Clarkson University. He began his career designing, programming, installing, and commissioning emissions controls and performance upgrades for natural gas compression engines and facilities; projects that often involved reviving equipment manufactured in the 1920s and last used in the 1980s. Moving on to larger projects, he began designing electrical systems for land-rigs and jack-up-rigs (oil rigs). Services Matthew offers include analysis of residential, commercial, and industrial equipment and systems, repair cost analysis, root cause failure analysis, product design and defect analysis, origin and cause investigations for fires and explosions.

Credentials

- PE | Professional Engineer
- CFEI | Certified Fire & Explosion Investigator
- FAACDP | FAA Certified Drone Pilot

Representative Consulting Assignments

- Telecommunication Company - Electric Shock | Texas | Litigation Support
- Solar Array | Assorted Locations | Electrical Equipment Damage Assessment
- Brewery | Louisiana | Electrical Equipment Damage Assessment
- Tank Battery Explosion | Origin and Cause Investigation
- Manufacturing Company - Transformer Equipment Damage | Kansas | Litigation Support
- Marine Explosion | Louisiana | Origin and Cause Investigation
- Manufacturing Company - Electrocution | Texas | Litigation Support
- Hydroelectric Facility | New Hampshire | Electrical Equipment Damage Assessment
- Electrical Substation Equipment Damage | Assorted Locations | Electrical Equipment Damage Assessment
- Grain Processing Facility Fire | Origin and Cause Investigation

Professional Experience

- 2022 - Current | Senior Managing Engineer | YA Engineering Services
- 2018 - 2022 | Senior Project Engineer | Envista Forensics
- 2016 - 2018 | Consulting Engineer | Engineering Design & Testing Corp.
- 2015 - 2015 | Applications Engineer II | R Stahl
- 2010 - 2014 | Engineer | LeTourneau Technologies / Cameron
- 2007 - 2010 | Engineer | Hoerbiger Engineering Services

Area of Practice

- Building Code Upgrade Review
- Condition Assessment
- Damage Assessment

- Failure Analysis
- Fire and Life Safety Systems
- HVAC and Mechanical Systems
- Litigation Support
- Marine Structures
- Non-Destructive Testing
- Repair and Rehabilitation Design
- Repair Cost Estimating
- Fire Origin & Cause
- Controls Engineering
- Computer Programming
- Drone Pilot
- Electrical & Mechanical Systems and Failures
- Electrical Engineering Design
- Electrical Installation Defect Investigations
- Equipment / Product Failure Investigations
- Forensic Electrical Engineering
- Lithium Battery Investigations
- NEC & NESC Expertise
- Power Electronics
- Power Generation
- Power System Engineering
- Solar Array Inspection
- Transformer Failure Analysis

Education

- Clarkson University - Bachelor of Science - Electrical Engineering - Potsdam - New York

Affiliations

- Institute of Electrical and Electronics Engineers (IEEE)
- Texas Society of Professional Engineers (TSPE)
- National Association of Fire Investigators (NAFI)
- National Society of Professional Engineers (NSPE)
- Clarkson University, Houston Texas Alumni Chapter (President)
- National Fire Protection Association (NFPA)

Licenses

- 35913-E - Alabama - Professional Engineer
 - EE-207098 - Alaska - Professional Engineer
 - 17273 - Arkansas - Professional Engineer
 - 24780 - California - Professional Engineer
 - PE.0060278 - Colorado - Professional Engineer
 - PE922025 - District of Columbia - Professional Engineer
 - 84752 - Florida - Professional Engineer
 - PE052944 - Georgia - Professional Engineer
 - PE-20138-0 - Hawaii - Professional Engineer
 - 62.075145 - Illinois - Professional Engineer
 - PE26744 - Kansas - Professional Engineer
 - 40710 - Louisiana - Professional Engineer
 - 62186 - Minnesota - Professional Engineer
 - 32670 - Mississippi - Professional Engineer
 - 2019000325 - Missouri - Professional Engineer
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- 15657 - New Hampshire - Professional Engineer
 - 24GE05458800 - New Jersey - Professional Engineer
 - 23607 - New Mexico - Professional Engineer
 - 101234 - New York - Professional Engineer
 - 54843 - North Carolina - Professional Engineer
 - 28743 - Oklahoma - Professional Engineer
 - 14443 - Rhode Island - Professional Engineer
 - 43416 - South Carolina - Professional Engineer
 - 127695 - Tennessee - Professional Engineer
 - 116973 - Texas - Professional Engineer
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