

BLAKE M. CARLTON, P.E., C.F.E.I.

Consulting Engineer

Mechanical System Analysis, Structural Analysis Fires and Explosions, Fuel Gas Systems Workplace Accident & Safety Analysis

PROFESSIONAL SUMMARY

\cup	Bachelor of Science in Mechanical Engineering, Texas A&M University, 2013.
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0	Primary areas of consultation include mechanical systems, HVAC, plumbing, and utility systems.
	Residential and commercial construction, plumbing, foundation, and roof inspections; water intrusion/damage and foundation failure/deflection analysis.
0	Experiences include detailed on-site analyses, repair scope, specification development,

acceptance testing, validation, and equipment re-commissioning.

EMF

	2023-Present	MCDOWELL OWENS ENGINEERING, INC
	Houston, Texas	Consulting Engineer. Areas of primary interest include mechanical system and equipment failure analysis, commercial and residential construction, mechanical, electrical, plumbing (MEP) related losses and evaluation and analysis of workplace accidents. Premises liability related to slip/trip and fall accidents.
)	2018-2023	EFI GLOBAL
	Houston, Texas	Senior Forensic Engineer. Primary interests included cases involving fatality and personal injury claims involving industrial equipment. Analysis of HVAC, plumbing systems, and components for commercial and residential structures; premises liability related to slip and fall accidents; mechanical failures of residential and commercial equipment to include plumbing leaks, appliance failures, HVAC failures; oil and gas equipment failure; material fracture (fractography) and corrosion failure analysis; commercial equipment asset valuation.
Ċ	2013-2018	TECHNIPFMC
	Houston, Texas	Production Engineer III. Responsible for concept design, final design, and

Houston, Texas

Production Engineer III. Responsible for concept design, final design, and fabrication reviews of new product tooling for offshore oil and gas and underwater piping involving analysis of weld failure, fastener shear, fastener tear-out, tension, compression, buckling, and bending; supervised risk and safety mitigation for annual high-risk projects and conducted root cause analysis investigations focusing on material properties and factor of safety calculations; issued protocols and conducted factory assembly and testing on equipment before offshore development. Assisted with drilling and fracking assembly operations.



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MECH. ENG. DEPT. TEXAS AGM UNITERS	\bigcirc	2012-2013	MECH. ENG. DEPT. TEXAS A&M UNIVERSIT
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College Station, Texas Teaching Assistant. Led seminars regarding effective communication and development of leadership skills. Led weekly engineering practice presentation and evaluated student competency in professional presentations and technical report writing.

O Summer-2012 CATERPILLAR

Houston, Texas Technical Marketing Intern. Programmed software for record entry and retention

catered for ease of use. Created enhanced marketing presentations for natural gas

service equipment catalog.

Summer-2011 JP KENNY

Houston, Texas Engineering Consulting Intern. Analyzed drafting documents for inconsistencies

and recommended revisions to the document control department. Produced CAD drawings and 3D models pertaining to subsea processing equipment

catalog.

EDUCATION

Bachelor of Science, Mechanical Engineering
 Texas A&M University, College Station, Texas, 2013

REGISTRATIONS, LICENSES & CERTIFICATIONS

O Licensed Professional Engineer:

Mississippi

Alabama	No. 39734	New Mexico	No. 28692
Alabama	110. 557 54	- INCW WICKIGO	140. 20002

Arkansas
 No. 19891
 Oklahoma
 No. 32074

Arizona
 No. 78442
 Texas
 No. 131172

70.7544Z

Colorado
 No. 0062323
 Tennessee
 NO. 129776

Florida
 No. 90075
 Kentucky
 No. 39518

Louisiana
 No. 43213
 Georgia
 No. 051600

No. 31217

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REGISTRATIONS, LICENSES & CERTIFICATIONS

Certified Fire and Explosion Investigator (C.F.E.I.) National Association of Fire Investigators 2023 by examination Registration Number 26662-16195 CXLT, Tribometer Slip Resistance Testing Certified EPA Section 608, Safe Handling of Refrigerants Applicable Refrigerant Types: Universal

CONTINUING EDUCATION (SELECTED)

0	National Association of Fire Investigators (NAFI), Fire Investigation Training Program, 2023
Ö	Vale Advanced Roofing Certification, Vale Training, 2022
0	Electrical Engineering Concepts for the Non-Electrical Engineer, Ryan Malone, 2021
\bigcirc	Corrosion Control and Tactics, Gerald Davis, 2021
\bigcirc	Principles of Water Treatment, Ryan Malone, 2021
\bigcirc	Practical Fractography, ASM International/ John Christie, 2020
\bigcirc	CXLT Slip Resistance Testing Certification, Excel Tribometers, 2019, 2022
\bigcirc	Air Conditioning and Refrigeration, TPC Training/ Ken Green, 2019
0	International Association of Arson Investigators (IAAI) – CFITTrainer.net
	 Investigating Motor Vehicle Fires, 2018

- Motor Vehicles: The Engine and the Ignition, Electrical and Fuel Systems, 2018
- Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems, 2018

PROFESSIONAL MEMBERSHIPS

0	American Society for Mechanical Engineers	0	National Association of Fire Investigators
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O	Texas Board of Professional Engineers	0	National Fire Protection Association (Company Affiliation)
Ö	SAE International		(Company Amidation)
\bigcirc	International Association of Arson Investigators		