

## PROFESSIONAL SUMMARY

- Bachelor of Science in Mechanical Engineering at the United States Military Academy at West Point, NY, 2011.
- Master of Science in Engineering Management at Missouri University of Science and Technology in Rolla, Missouri, 2015.
- Primary areas of consultation: mechanical systems and component failure analysis, Carbon Monoxide exposure, and utility systems. Residential and commercial construction, HVAC and plumbing, roof inspections, water intrusion/damage, and foundation failure/deflection analysis. Construction Safety and OSHA compliance related to workplace safety and injury.
- Experiences include detailed on-site analyses, repair scope and specification development. Analyses are conducted according to current applicable standards. And providing sworn testimony when required

## EMPLOYMENT RECORD

- Apr. 2019-Present **MCDOWELL OWENS ENGINEERING, INC**  
Houston, Texas  
Engineering Manager/Consulting Engineer. Areas of primary interest include mechanical system and equipment failure analysis, commercial and residential construction, hazardous gas exposure, and mechanical, electrical, plumbing (MEP) related losses. Premises liability related to slip/trip and fall accidents.
- Nov. 2016-2019 **BISON ENGINEERING, INC.**  
Kingwood, Texas  
Mechanical Forensic Engineer. Areas of primary interest include mechanical systems analysis including pressure vessels, hazardous gas exposure with a focus on Carbon Monoxide (CO), and mechanical, electrical, plumbing (MEP) related losses.
- 2007-2016 **U.S. ARMY.**  
Various postings (includes U.S. Military Academy – West Point).
- 2004-2007 **THE DARVILLE COMPANY**  
Odessa, Texas  
Apprentice Plumber and HVAC Installer. Performed residential and commercial MEP work installing and/or repairing a multitude of plumbing and HVAC systems.

## UNITED STATES ARMY 2007-2016

- 2015-2016 Facilities Manager - United States Army - December 2015 to 2016. Duties included managing all service, repair, maintenance, demolition, and construction on all buildings and facilities for the entire 30,000-soldier 1st Cavalry Division at Fort Hood, TX.
- Jun. 2014-Dec. 2014 Executive Officer for United States Army. June 2014 to December 2014. Selected above peers to be the Executive Officer for the Brigade Headquarters Company of 2nd Armored Brigade Combat Team, 1st Infantry Division, Fort Riley, KS.
- Mar. 2013-Jun. 2014 Executive Officer for United States Army. March 2013 to June 2014. Selected to be the Executive Officer for ATTACK Company, 1st Battalion of the 18th Infantry Regiment, 2nd Armored Brigade Combat Team, 1st Infantry Division, Fort Riley, KS.
- Apr. 2012-Mar. 2013 Platoon Leader for United States Army. April 2012 to March 2013. Selected to be the Platoon Leader for the 3rd Platoon, Barbaric Company, 1st Battalion of the 18th Infantry Regiment, 2nd Armored Brigade Combat Team, 1st Infantry Division, Fort Riley, KS. Duties included managing, leading, and employing 42 soldiers and 4 Bradley Fighting Vehicles on and off the battlefield.

## EDUCATION

- Bachelor of Science in Mechanical Engineering at The United States Military Academy at West Point, NY, 2011
- Master of Engineering Management at Missouri University of Science and Technology in Rolla, MO, 2015

## REGISTRATIONS, LICENSES & CERTIFICATIONS

- Licensed Professional Engineer:
  - Arkansas No. 17533
  - Florida No. 92517
  - Georgia No. PE047692
  - Kansas No. PE28589
  - Kentucky No. PE37884
  - Louisiana No. PE0045011
  - Missouri No. 2016001242
  - Texas No. 122773
  - Alabama No. 52072

- Certified Fire and Explosion Investigator (C.F.E.I.)
- USA DOT FAA - Remote Pilot License – DRONE – License No. 4555908
- Military Construction Management
- Construction Project Management

## **CONTINUING EDUCATION (SELECTED)**

- Safety Engineering Course, Safety & Health Requirements Part 1, Part 2, and Part 3
- Smart Workplaces: Designing Safe Workspaces & Preventing Injury
- Anatomy of Construction Defects
- 2015 International Fire Code®: Significant Changes
- Combustion Analysis
- Ethical Decision Making for Engineers #3
- Ethical Decision Making for Engineers #2
- Energy from Waste
- Officer Education and Leadership Training, United States Army, January 2015 to December 2015
- Officer Education and Leadership Training, United States Army, May 2011 to April 2012
- National Association of Fire Investigators – Certification Class and Testing
- Essentials of Intelligent Transportation Systems
- Ethics for the Practicing Engineer: An Introduction
- Ethics for Professionals
- Energy Efficient Water Heating
- Swimming Pools: Mechanical and Hydraulic System Design
- Liquefied Natural Gas (LNG): Natural Gas and LNG in the 21st Century
- Hydroelectric Power Generation

- Electric Motors and Generators: Basic Magnetics
- Electric Motors
- Ethics the Practicing Engineer: Managing Risks Imposed on the Public

## **PROFESSIONAL MEMBERSHIPS / CERTIFICATIONS / QUALIFICATIONS (SELECTED)**

- National Association of Fire Investigators (NAFI)
- National Fire Protection Association (NFPA) (Company Affiliation)