Curriculum Vitae of

TODD A. REEDER, PE, M.SC., ACTAR

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SYNOPSIS

Having spent more than eight years in the solid rocket and aerospace industry prior to joining Palmer Engineering and Forensics in 2020, Mr. Reeder has a demonstrated proficiency in mechanical engineering principles and manufacturing methods. Mr. Reeder participated in a variety of failure investigations and root cause analyses prior to joining Palmer Engineering and Forensics and has been the lead engineer on more than 400 cases since his arrival. Typical cases include vehicle accident reconstruction, plumbing and appliance failures, plumbing design evaluation, fuel gas system malfunctions, residential and commercial roof inspections, and water ingress damage. Mr. Reeder possesses a Master of Science degree in mechanical engineering and has authored or coauthored five journal and conference publications. Mr. Reeder is a professionally licensed engineer (PE) in Arizona, California, Colorado, Idaho, Montana, Nevada, Utah, and Wyoming. In addition, Mr. Reeder is an adjunct instructor for Northwestern University's Center for Public Safety in the field of crash reconstruction and is accredited by the Accreditation Commission for Traffic Accident Reconstruction (ACTAR). He is also a Certified Fire and Explosion Investigator (CFEI), Certified Vehicle Fire Investigator (CVFI), and Haag Certified Inspector (HCI) for both residential and commercial roofs.

EDUCATION

Brigham Young University
M.S. Mechanical Engineering 2010
Thesis: Corrosion-related Gas Measurements and Analysis for a Suite of Coals in Staged Pulverized Coal Combustion

Brigham Young University
B.S. Mechanical Engineering 2008
Thermal Fluids Emphasis

REGISTRATION

Registered Professional Engineer in: AZ, CA, CO, ID, MT, NV, UT, WY
Accreditation Commission for Traffic Accident Reconstruction (ACTAR), No. 4976
Certified Fire and Explosion Investigator, CFEI (NAFI)
Certified Vehicle Fire Investigator, CVFI (NAFI)
Certified Roof Inspector, Residential and Commercial (Haag Engineering)

EXPERIENCE

Palmer Engineering and Forensics, LLC, North Salt Lake, Utah
Vice President 2024 – Pres
Sr. Engineer 2020 – 2024

Northwestern University, Center for Public Safety
Instructor, Crash Reconstruction 2026 – Pres

Northrop Grumman Propulsion Systems, Promontory, Utah
Sr. Principal Energetics Manufacturing Engineer, Project Manager 2018 – 2021
Principal Energetics Manufacturing Engineer, Project Manager 2017 – 2018
Sr. Energetics Manufacturing Engineer 2017 – 2017
Sr. Engineer, Project Engineering 2015 – 2017
Sr. Engineer, Aerothermal Analysis 2015 – 2015
Engineer, Aerothermal Analysis 2013 – 2015

Utah State University, Brigham City, Utah
Adjunct Instructor – Mechanical Engineering Department 2015 – 2015
Numerical Methods for Engineers

University of California, Merced, Merced, California
Research Assistant – Mechanical Engineering Department 2010 – 2012

Brigham Young University, Provo, Utah
Research Assistant – Mechanical Engineering Department 2007 – 2010

SOFTWARE PROFICIENCY

Virtual Crash
NX, NX Thermal
HyperMesh
FEMBuilder (Northrop Grumman In-house code)
Matlab
Excel/VBA

PROFESSIONAL AFFILIATIONS

ACTAR – Accreditation Commission for Traffic Accident Reconstruction
SAE – Society of Automotive Engineers
NAFI – National Association of Fire Investigators
Haag Engineering