

PARKER H. WEST, P.E.

EDUCATION: **Master of Science in Mechanical Engineering**, May 2018

- Texas A&M University

Bachelor of Science in Mechanical Engineering, May 2016

- Texas A&M University

CERTIFICATIONS **Professional Engineer**, Licensed in New Mexico, Texas, and Arkansas

AREAS OF EXPERTISE:	Mechanical Engineering	Materials Science	Failure Investigations
	Product Design	Composite Layup	Machining
	Electrical Contact Design	Marine Engineering	Explosive Engineering

EXPERIENCE: **Engineering Consultant**

- Performs engineering contract work
- Completes feasibility studies and provides technology consultation
- Conducts patent searches and literature reviews

Member of the Technical Staff, R&D Mechanical Engineering, Sandia National Laboratories, 2018-Present

- Worked on weapon design teams during development and production phases; optimized designs to meet manufacturability, cost, and schedule requirements
- Conducted failure analysis on explosive manifold. Analyzed explosive interface, planned test shots, post-processed data, and redesigned manifold for new application.
- Led team and managed \$1.5M project to perform testing, establish best practices, and write design guide for precious metal electrical contact pairs.
- Served as component representative for problem-solving and failure analysis effort following a high-visibility DoD test (received 2020 Employee Recognition Award for this work).
- Redesigned flight control surface substructure to optimize for metal additive manufacturing process.

PUBLICATIONS:

- P.H. West, V. Shunmugasamy, C. Usman, I. Karaman, and B. Mansoor: “Friction Stir Welding of Equiatomic Nickel Titanium Shape Memory Alloy – Microstructure, Mechanical, and Corrosion Behavior”. *Journal of Advanced Joining Processes*, November 2021.
- P.H. West, V. Shunmugasamy, C. Usman, I. Karaman, and B. Mansoor: “Dissimilar Friction Stir Welding of Nickel Titanium Shape Memory Alloy to Stainless Steel – Microstructure, Mechanical, and Corrosion Behavior”. *Journal of Advanced Joining Processes*, November 2021.

HOBBIES: Hunting
Trapping
Sailing
Fishing
Skiing
Hiking