



Old Iron Innovation LLC

BRIAN M. DAVIS, MSME, PE has over 29 years of cross-functional experience as a seasoned mechanical engineer, forensic investigator, patent holder and former US Naval Officer:

- Gas turbines:
 - Aircraft propulsion systems/aircraft (jet) engines
 - Marine/ship and transportation turbine systems
 - Power generation/land-based turbine systems
- Automotive engineering
- Forensic engineering including:
 - Component failure and forensic analysis
 - Fatigue and fracture mechanics
 - TOPS8D
 - Failure investigations
- Mechanical engineering/machine design:
 - Medical device design including ultrasonics
 - Manufacturing processes
 - Composite materials
- Medical device forensic engineering
- FAA certification and FDA 510(k) approval
- Licensed professional engineer (PE) OH # 68061 & FL # 79103

EDUCATION/TRAINING:

- BSME (University of Florida) cum laude
- MSME (University of Cincinnati)
- Certified Six Sigma Greenbelt graduate
- TOPS8D root cause investigation trained
- SEAK course, "How to be an Effective Expert Witness"

PROFESSIONAL ASSOCIATION MEMBERSHIP:

- National Society of Professional Engineers (NSPE)
- American Society of Mechanical Engineers (ASME)
- American Institute of Aeronautics and Astronautics (AIAA)
- American Society for Metals (ASM)
- Society of Automotive Engineers (SAE)
- International Association of Marine Investigators (IAMII)
- National Academy of Forensic Engineers (NAFE) - affiliate

PATENTS/PUBLICATIONS/LECTURING:

- Six (6) US and international patents (6,076,835, 6,217,283, 6,354,780, 6,914,215, 8,061,975, 8,197,196)
- Davis et al., "Performance of GenIV LSP for Thick Section Airfoil Damage Tolerance," GE Aircraft Engines, 45th AIAA SDM Conference, April 2004 & at AeroMat 2005 conference, Orlando FL, June 2005.
- Lecturer and course developer for 6.5hr professional engineer CE course "Introduction to Vibrations," Halfmoon Education Inc., Cincinnati, OH March 21, 2017 & Indianapolis, IN August 16, 2017.

CAREER HISTORY:

Old Iron Innovation LLC, Cincinnati, OH

General Electric Aviation (Aircraft Engines), Cincinnati, OH

Allison Advanced Development Company (Rolls-Royce), Indianapolis, IN

Pratt and Whitney (Aircraft Engines), West Palm Beach, FL

Ethicon Endo-Surgery Inc., Johnson & Johnson, Blue Ash, OH

Lieutenant & Engineering Duty Officer, US Navy (Reserve)

GE Marine and Industrial Systems Engineering, Cincinnati, OH

Forensic Engineering & Consulting

Aviation (Gas Turbines/Jet Engines)

Aviation (Gas Turbines/Jet Engines)

Aviation (Gas Turbines/Jet Engines)

Medical Devices

Military Marine Engineering

Marine and Industrial Engineering