Shane Nicholson

Currently working with the FAA Fire Safety Branch testing fuel cell stacks and systems in aircraft.

2010 to present serving as SAE standards member on the EUROCAE WG-80 / SAE AE7-AFC Fuel Cell Working Group contributing to SAE AIR6464 and the ARP/AS standard under current development.

Education: BS Aerospace Engineering 1993 from University of Texas at Arlington.

2009 to present at Parker Hannifin, Aerospace Group, Central Engineering as a Principal Engineer

Lead System Engineer/Architect of Proton Exchange Membrane Fuel Cell (PEMFC) technologies for applications on commercial transport responsible for:

- **Requirements capture of fuel cell systems and installation on aircraft**
- **System architectures (APU replacement, Emergency Power, Multi-functional system)**
- **Reactant safety, use and storage considerations (hydrogen, air, and oxygen)**
- **Design Assurance Level considerations of system installation and functional use on aircraft**
- **Prototype system design engineering**

Lead of R&D Fuel Cell Laboratory Team

- **Test objectives definition for PEMFC use on aircraft**
- **Balance of plant development**
- **Simulation and controls development**
- **Fuel Cell stack testing and system development**

1997-2009 Lockheed Martin, Ft Worth, Texas as a Mechanical Engineer in Engineering Test Laboratories. System development and environmental testing for fighter aircraft and IR&D programs.