

JEFF LUTTRELL

Fort Worth, Texas, 76123

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SUMMARY

Principal Engineer with expertise in developing innovative concepts to integrate energy usage with benefits of reducing energy costs and conserving energy resources. Proven ability to manage complex projects from inception to delivery. Outstanding communicator, trainer and leader able to effectively communicate with all levels within the organization. Additional expertise includes:

- Thermodynamics Analysis
- Aircraft Environmental Control
- Aircraft Thermal Management
- Adjunct Professor
- Electronics Cooling
- Fluid Distribution Network Analysis
- Catia V5, Patran, Matlab, Icepak, Mathematica, Fortran
- Root Cause Investigation
- Secret Clearance

PROFESSIONAL EXPERIENCE

BAE SYSTEMS

2014

Principal Engineer Cooling Systems - Fort Worth, TX

Full responsibility for electronics cooling distribution design for an F-16 avionics upgrade program.

- Developed avionics cooling verification plan
- Designed air valve controller for ground test
- Designed cooling system ground test tools

LOCKHEED MARTIN

1991-2013

Principal Engineer Utilities & Subsystems - Fort Worth, TX (2005-2013)

Supported U&S engineers with software management, training development, and problem resolution. Root cause investigations. University collaboration on software evaluation, training development, and senior design project support.

- Software cost containment, savings over \$25,000 per year
- Identified pneumatic system performance shortfall and cost risks
- Conceived integrated air contamination control concept

Lead Engineer Thermodynamics & Acoustics - Marietta, GA (2003-2005)

Supervised thermodynamics and acoustics activities for aircraft modification programs. Responsible for electronics suite cooling integration and verification, cabin conditioning and pressurization, noise requirements verification, pneumatic system analyses, ventilation, thermal analyses.

- Directed climatic test to verify high level requirements
- Initiated design change to eliminate cooling system cascade failure mode

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Aircraft Thermodynamics Lead Engineer - Marietta, GA (1991-2003)

Coordinate tri-company ventilation and thermal analyses. Icing analyses and testing. Component durability temperature requirements. Environmental exposure requirements development.

- Defined full scale inlet icing test plan
- Developed environmental thermal spectrum methodology

ADDITIONAL RELEVANT EXPERIENCE

ADJUNCT PROFESSOR

2014-2015

Texas Christian University, Fort Worth TX

Spring 2015

Lecturer in Engineering, Statics

University of Texas, Arlington, TX

Spring 2014

Lecturer in Mechanical Engineering, Heat Transfer

CONSULTANT, Fort Worth, TX

2012- Present

Client: L2 Consulting Services, Austin, TX - Electronics cooling distribution design

EDUCATION

PhD in Mechanical Engineering 2016 (in process), *University of Texas-Arlington, Arlington, TX*

MS, Mechanical Engineering, *Texas Tech University, Lubbock, TX*

BS, Mechanical Engineering, *Texas Tech University, Lubbock, TX*

PUBLICATIONS

1. Luttrell, J. and Dunn, J., The Effects of Surface Roughness on Convection with External Flow, ASME Proceedings of the 30th National Heat Transfer Conference, vol. 8, August 1995
2. West, Timothy and Luttrell, Jeffrey, F-22 Inlet and Duct Ice Detection and Accretion Test, 36th AIAA Aerospace Sciences Meeting 98-0572, January 1998
3. Luttrell, J. and West, T., F-22 Inlet Shed Ice Particle Sizing Test, 39th AIAA Aerospace Sciences Meeting 2001-0091, January 2001
4. Luttrell, Jeff and Agonafer, Dereje, Solar Assisted Household Clothes Dryer, Proceedings of ASME 2010 4th International Conference on Energy Sustainability ES2010-90095, May 2010