

Jason A. Solimani

Thermal Engineer

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AEROSPACE/THERMAL ENGINEER

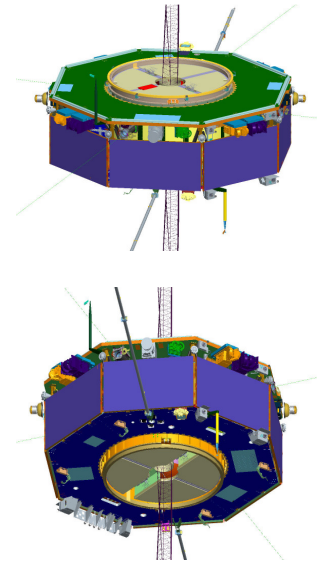
EXPERIENCE

Thermal Engineer, Vertex Aerospace, LLC

12/10 -
PRESENT

Magnetospheric Multi-Scale (MMS) Mission I&T Senior Thermal Engineer, Vertex Aerospace

- Responsible for providing thermal engineering oversight of the observatory thermal hardware integration
 - Heaters and thermostats
 - Multi-Layer Insulation (MLI)
 - 1-wire Temperature Sensors
- Supported ambient verification testing of thermal control hardware (heaters, t-stats, temperature sensors)
- Responsible for the observatory thermal analysis
- Develop Thermal Desktop™ models of the spacecraft structure, propulsion tanks, lines, fill and drain valves, filters and mechanical mounts
- Responsible for performing the observatory level Thermal Desktop™ models and presenting the thermal analysis results
- Support thermal and spacecraft subsystem engineering meetings, trade studies and development tests
- Knowledge of thermal coatings, thermal control system (TCS) hardware and thermal design techniques
- Present thermal analysis at system design reviews
- Experience in developing thermal vacuum test (TV) plans and Procedures
- Supported thermal balance (TB) & thermal vacuum (TV) tests
- Performed thermal model correlation from the TB test data



9/08-11/10

Junior Thermal Engineer, HISS, Bowie, MD

- Supported Senior and Thermal Engineers

5/07-9/08

Air Transportation Research Analysis, ATK, NASA Langley, Hampton, VA

- Supported Civil Servants and other Contractors on Research on improving National Airspace Transportation

11/06-5/07

Online Satellite Engineer, Honeywell International, Greenbelt, MD

- Supported NASA's EOS satellite System

9/06-11/06

Junior Engineer, New West Technologies, Landover, MD

- Supported lead engineer in production implementation

Related Skills

- Proficient with thermal analysis tools SINDA and Thermal Desktop™.
- Experience with ESATAN/ESARAD
- AutoCAD, Matlab (Orbital Mechanics)
- LabView, Simulink and STK experience
- Spacecraft Subsystems Design coursework
- MS Office

EDUCATION

B.S., Aerospace Engineering, May 2006
Virginia Polytechnic Institute (Virginia Tech), Blacksburg, VA

SPECIAL ACHIEVEMENTS

1st Place 2006 AIAA Design Spacecraft Competition

- worked in group of ten to design Earth reentry decelerator
- project based on specific constraints defined by AIAA
- project presented at Space 2006 Conference
- structural, dynamics, subsystem work

Training for Private Pilot License

- Employed 30 + hours a week while attending classes to support self/pilot's license

INTERESTS

- **Intramural Basketball**, Virginia Tech, 2001-2006
- **Intramural Softball**, Virginia Tech, 2001 – 2006
- **Varsity/JV Baseball**, High School, 1998 - 2001