

# Santino V. Rosanova

Jr. Thermal Engineer

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## AEROSPACE/JR THERMAL ENGINEER

### EXPERIENCE

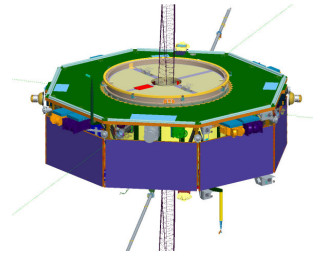
#### 6/12 - PRESENT Tracking and Data Relay Satellite System (TDRSS) Junior Thermal Engineer

- Develop Thermal Desktop™ models of the spacecraft and components
- Perform flight correlation of TDRS 3-7 and TDRS 8-10 using Thermal Desktop™ thermal models
- Support TDRS-K pre-flight thermal model evaluation
- Support TDRS-K post-flight model correlation
- Developed additional thermal model components using Thermal Desktop™ to include additional fidelity
- Support on-orbit operations, on-orbit/ground testing, analysis & support of on-orbit anomaly investigations, etc



#### 4/2012 - Present Magnetospheric Multi-Scale (MMS) Mission Junior Thermal Engineer

- Support observatory integration of thermal hardware that includes:
  - Multi-Layer Insulation (MLI) Blankets
  - Flight temperature sensors, heaters and thermostats
  - Thermal isolators
  - GSE heaters and temperature sensors
  - Develop Work Order Authorization (WOA)
  - Thermal Hardware installation procedures
- Provide observatory Thermal Vacuum (TV) and Thermal Balance (TB) test support



### RELATED SKILLS

- Proficient in Thermal Desktop™ and SINDA/FLUINT
- Proficient in Microsoft Office

### EDUCATION

**B.S., Physics**, May 2012  
University of Mary Washington, Fredericksburg, VA

- National Honor Society (2007-2008)
- DeMatha Honor Roll (2004-2008)

### SPECIAL ACHIEVMENTS

- University of Mary Washington Baseball Team (2008-2012) Captain 2012
- Served on Student Athletic Advisory Committee as a Representative for the UMW Baseball Team
- Prince George's County Youth Volunteer of the Year (2008).
- Daily Points of Light Award – 2009.
- Father Augustine Derricks Award (DeMatha) – 2008.
- Volunteered with UMW Baseball Team reading to elementary school children with disabilities