

## **Mr. Dinakar Prasad Vajja**

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### **Research Area:**

- Design and development of stand-alone control and data acquisition systems by using microcontrollers, DSPs and FPGAs

### **Research Interests:**

- Instrumentation for space science research
- High speed data communication

### **Academic Qualifications:**

- Master of Science in Radio Astronomy and Space Science
- Bachelor of Technology in Electronics and Communications

### **Responsibilities:**

- Project manager (onboard firmware) for CHACE-2 (CHAndras's Altitudinal Composition Explorer) payload of ISRO Chandrayaan-2 mission
- Project manager (payload electronics) for ChaSTE (Chandra's Surface Thermophysical Experiment) payload of ISRO Chandrayaan-2 mission
- Project manager (onboard firmware) for PAPA (Plasma Analyser Package for Aditya) payload of ISRO Aditya-L1 mission
- Deputy project manager (onboard firmware) for MENCA (Mars Exosphere Neutral Composition Analyser) payload of ISRO Mars mission 2013
- Engineer for ILS (Integrated Lidar System) project
- Engineer for ARFINET (Aerosol Radiative Forcing over India NETWORK) project of ISRO-GBP (Geosphere Biosphere Programme)

### **Major Activities Completed:**

- Development of onboard firmware for operation of MENCA payload of ISRO Mars mission 2013
- Development of spacecraft interface simulator for MENCA payload of ISRO Mars mission 2013
- Design and development of stand-alone automatic data disseminator system for aerosol observatories of ARFINET by using GPRS-based FTP and Email protocol
- Design and development of stand-alone control and data acquisition system for in-house built instrument multi-wavelength solar radiometer
- Design and development of payload, telemetry and telecommand interface for high altitude balloon borne measurements of Black Carbon
- Development of onboard firmware for operation of EACE (Earth's Atmosphere Composition Analyser) payload of ISRO 'Sooryagrahan' 2010 programme