AJEESHKUMAR P. S.

Scientist / Engineer - SC

Atmosphere Technology Division

SPL / VSSC, Trivandrum

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Research Area

PC Based Data acquisition systems.

PCB Designing.

Design of Embedded systems.

Academic Qualifications

AMIE in Electronics and Communication Engineering.

Diploma in Electronics Engg.

Professional Background

Diploma Trainee in IISU/VSSC, Trivandrum.

Engineering Assistant in Doordarshan/ Prasar Bharti.

Major Activities completed

- **Development of the payload, telemetry and telecommand interface for High altitude Balloon borne Experiments for Black Carbon (BC) measurements under ARFI-RAWEX program.**
- **Design and development of network based data online display system for the display of the data from ARFINET stations at SPL.**
- **Design and development of GUI software for GSM based data acquisition and display system.**
- **Technical support for setting up and maintenance of ARFINET stations and the Himalayan Aerosol Observatory at Hanle, J&K.**
- **Development of Stand-alone control and data acquisition unit of MWR.**
- **Design and Development of USB to RS232 converter and the up-gradation of MWR control unit with USB connectivity.**
- **Development of Data Disseminator for ARFINET data archival system.**
- **Design and development of Wireless based short range data acquisition system.**

- **Design and development of PC interface software for Real-time Data Acquisition and Display system for Aethalometer.**
- **Design and development of Software for E-Mail based data transfer system.**
- **Development of QCM (Quartz Crystal Microbalance impactor) Data Acquisition System.**
- **Installation of 2kw Solar Power plant at ARFI observatory, Challakere, Karnataka.**
- **Development of a Proto Aerosol Sampler for RAWEX aircraft experiment.**
- **Development of Prototype Infrared MWR (IR-MWR).**
- **Design of PCB and Checkout software for the development of CHASTE payload (EM) for Chandrayaan-2 mission.**
- **Development of data acquisition system using LAN and the design of the PC interface.**
- **Development of a Prototype radiation sensor using Silicon Photo diode.**
- **Development of data acquisition system for microwave propagation studies.**

Technical Papers

1. GUI software for GSM based data acquisition and display system, ISRO-VSSC-TR-0122-0-15
2. Design and development of PC based real-time data acquisition and display system for Aethalometer instrument, ISRO-VSSC-TR-0201-0-15
3. Stand-alone control and data acquisition system for multi-wavelength solar radiometer, SPL-TR-01-2012
4. Design and development of payload, telemetry and telecommand interface for the high altitude balloon borne measurements of aerosol black carbon under RAWEX, SPL-TR-01-2011
5. Compact uni-polar stepper motor driver for multi-wavelength solar radiometer, SPL-TR-03-2011
6. Stand-alone data acquisition system for QCM impactor, SPL-TR-02-2011

Conference Presentation

"Development of a GPS based Stand-alone Sun Tracking Radiometer", National Space Science Symposium-2016 (NSSS-2016) at VSSC, Thiruvananthapuram, 9-12 February 2016, PS-1A-053

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