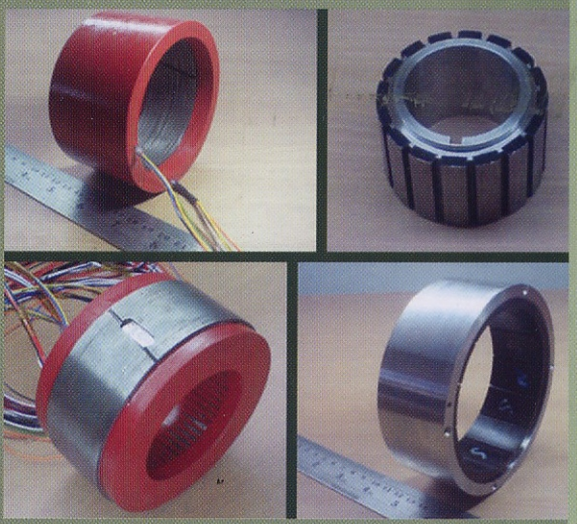
SONA SPEED

Sona Special Power Electronics and Electric Drives

Department of Electrical and Electronics Engineering

OBJECTIVES

To carryout research activities related to design and development of special electric motors, drives and principle demo models for specific industry and academic requirements.



ACTIVITIES

A. RESEARCH AND DEVELOPMENT

To design and develop Brushless DC motors, Stepper motor, Limited angle torque motor and drive electronics for industry application and principle demo models to space museums.

B. PROJECTS

- Design and development of Quadruplex Brushless DC motor for C25 Engine Gimbal Control in launch vehicle, GSLV MKIII-Vikram Sarabhai Space Centre, Thiruvananthapuram.
- Design and development of Slotless Brushless DC motor, Flight & Engineering motors, for Megha Trophique Spacecraft - ISRO Internal Systems Unit, Thiruvananthapuram.
- Realisation of Drive electronics for Slotless Brushless DC motor for ISRO Intertial Systems Unit, Thiruvananthapuram.
- Design and Realisation of Limited Angle Torquer for ISRO Intertial System Unit, Thiruvananthapuram.
- Design and development of Stepper motor for Launch Vehicle application for Vikram Sarabhai Space Center, Thiruvanandhapuram.
- Development of Brushless DC motor for Electrical and Electronics Engineering Laboratory
- Development of Rate Gyro model, Scan mirror mechanism model and super precision gyro for ISRO Inertial Systems Unit, Thiruvananthapuram.

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