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EC-08 Power Systems Laboratory

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ENERGY ACADEMIC GROUP

EC-08 POWER SYSTEMS LABORATORY

— RESEARCH PROJECTS —

Overview

The Power Systems Laboratory supports postgraduate education and thesis research related to the design, analysis, simulation and implementation of power converter and electric drive technology. In coursework and projects, students employ modern device technologies, hardware-in-the-loop synthesis tools, simulation packages, measurement devices and power converter and electric machine modules to assess component operation, develop feedback controls, and study evolving power system challenges. An emphasis is placed on prototyping and validating against detailed simulation models.

Faculty Lab Director: Professor Alex Julian
Staff Lab Director: L. Warren Rogers
Lab Technician: ET1 Joshua Landreth

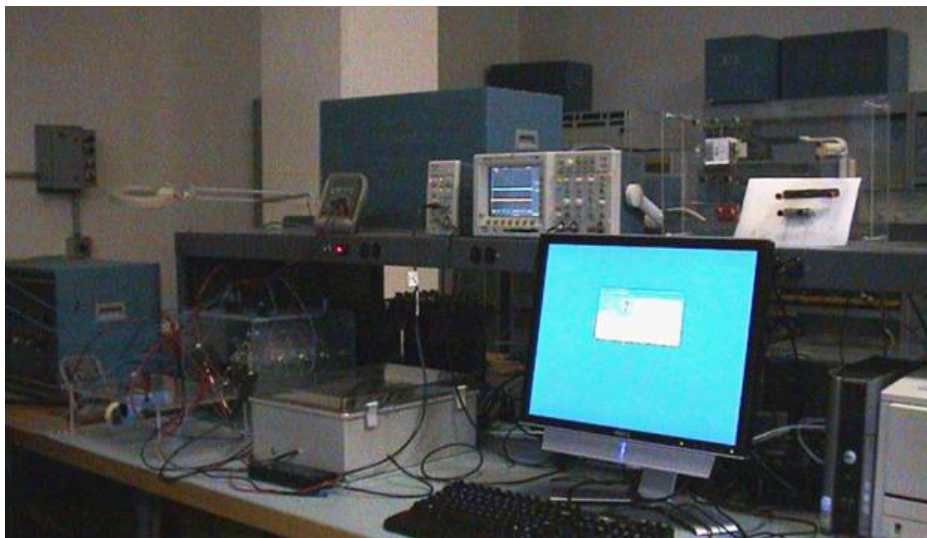
Value of this Lab to NPS

The lab is essential to support electric machines and power electronics curricula. More research activity is planned. The lab supports the MSEE degree track that provides the Navy with officers who have knowledge of electric ship power systems.

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EC-08 Power Systems Laboratory

Supported Depts. & Personnel

Current resident and DL enrollment in the course sequence is 20 students. The lab is utilized every quarter, usually one course each quarter.

Courses supported: EC2110, EC3130, EC3150, EC4130, EC4150

Research: Electric Ship Research and Development Consortium activity in the near future. Thesis research projects are closely coupled to current Department of Defense priorities including more-survivable power system architectures such as DC Zonal Electric Distribution, Integrated Power Systems and electric propulsion. Five thesis students in AY08.

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