Digital Control Laboratory

Mechanical Engineering Department
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Capabilities

- ✓ Design and implementation of Mechatronic Systems
- ✓ Digital implementation of analog controllers
- ✓ Automotive control systems
- ✓ Robust digital control of physical plants
- ✓ Real time programming for control
- ✓ Semi-active control of buildings vibration under Seismic excitements

Equipment

- ✓ Microcontroller programmers
- ✓ An educational setup for fuel injection control systems
- ✓ Furuta inverted pendulum (designed and constructed by students in the Mechatronics II course
- ✓ Miscellaneous devices for real time control and prototyping.
- ✓ DYMOLA, MATLAB, ANSYS, and other modeling/control software.