

ELET 144C : Embedded Microsystems

Personal computers are used to host an integrated hardware/software development system for applications with embedded Microcontrollers. A system-level approach to the specification, decomposition, hardware/software development, and system integration for the implementation of embedded systems is covered through lecture and lab experiments. Topics covered include microprocessor architecture, instruction sets, interfacing, and real-time programming techniques in assembly language. Lab exercises consist of system-level development in serial and parallel data transfer, data acquisition, and analog input and output signal processing.

Credits 4

Lab/Practicum/Clinical Hours 3

Lecture Hours 3

Prerequisite Courses

CPET 107C

ELET 101C

ELET 115C