EET 462  Industrial Automation II (4 credits)
Course Proposal
Outline

Class Schedule:  3 lecture, 1 2-hour labs

Description:  Automation components and subsystems involving sensors, transistors, logic, amplifiers, software, microprocessors, PLCs, actuators, encoders, stages, motors, controllers and drives. Students design, simulate, build, test and document automation systems for Capstone projects.
Pre:  EET 461

Texts: (some candidates)
Rockwell automation training material.

Plan: (continue work on EET 461 topics and introduce others as needed)
Automation introduction.
Motors, drives, controllers, and encoders - AC, DC, stepper, linear.
LogixPro programming and simulation software.
Rockwell Automation PLC’s.
Rockwell digital and analog modules including analog control and resolution.
Sensors.
Communications, ControlLogix and DeviceNet.
Automation instrument control and data acquisition using LabVIEW.

Laboratory:
Weekly labs will support the lecture plan.