Electrical & Computer Engineering

S E M I N A R

Louisiana State University

Fire-Fighting Robot

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Abstract—Every year, the IEEE, the Institute of Electrical and Electronic Engineers, sponsors a design oriented student competition. This year's challenge is to build a fire-fighting robot that can search a home, find a fire and extinguish it. The LSU ECE student team is building a mobile robot, with an array of sensors encompassing infrared and sonar distance detectors, infrared marker detection, light sensing flame detection, and an electronic compass module for directional navigation. The presentation will describe the operation and construction of circuits using these sensors and the manner in which we tie all these sensing systems together using various microcontroller/microprocessors. The final product will be an intelligent, real time, embedded system capable of navigating a house looking for, and extinguishing, flames. Progress of the project is reported on.

Date: Thursday, **18 February 1999**, 13:30 - 14:30
Place: Room 117 EE Building
Info: `http://www.ee.lsu.edu/seminar`
Food: *Refreshments will be served.*