

# ECE 4510/5530

## Microcontroller Applications

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### Homework Assignment #1

Total: 4 equivalent homework problems.

(Note: this is a mandatory ABET assignment, you will get an Incomplete for the course unless it is submitted)

Due Friday, May 13

You are to write a report on two issues as follows: (1) identify two major microprocessor/microcontroller manufacturers (i.e. Freescale, Texas, Instruments, Microchip, etc.), provide a brief overview of the company and describe their recent business and financial status (e.g., significant device families, market share, sales volume, etc.); (2) provide the name for the dominant microcontroller from each of the companies selected in (1) and describe what applications they are used for.

Use 1" margins and 12 pt Times New Roman fonts with single line spacing. Your report must not be shorter than three full pages.

You should search the manufacturers' Web Pages, and electronic versions of major journals and technical magazines to get the information for your paper. You must use your own words and properly refer to your sources. Keep in mind the guidelines on avoiding plagiarism that are given in the syllabus (e.g., no copy/paste of paragraphs from Internet sources).