

Final Project Proposal Submission

(Due date: Wednesday, November 4th @ 5:30 pm)

In the final project, you will design and implement an embedded computing mechatronics system using the PIC32 microcontroller. The project is a good illustration of the understanding of the material of the class and how it applies. In the project, you should use the PIC32 microcontroller, actuators, sensors, and input/output devices. The final project consists of two phases, the proposal phase, and the final submission phase.

This is the first phase of the project, the proposal phase. Each group should submit a proposal as a written document that contains the following (your document should not exceed 3 pages):

- The group members and the contact person in the group.
- A brief description of the project.
- Block diagram of the project showing the inputs and outputs of the system.
- The functionality of each block and how it interacts with other blocks.
- Peripheral devices (switches, LEDs, motors...) and a description of their role in the project.
- Inputs/outputs of the PIC32 microcontroller that are used in the project and their types (Analog/Digital).

Notes:

- The project group should not exceed three students and should not be less than two students.
- The contact person in the group should submit the project proposal. (No need for multiple submissions from the group members).