

ME461 Homework #4
Choosing your Final Project and Gathering Parts and Code.
Due Wednesday November 29th at 1:00pm but I want to hear your
Ideas way before then.

For this project, I want your group of four thinking about your final project and talking to me about your ideas and gathering parts and code to be used in your final project. Then by the due date, I want each of you to submit at least three lengthy paragraphs, explaining what your group will be attempting to accomplish in your final project. I am making this an individual submission because each partner in the group will be “in charge” of a certain aspect of the final project. Your individual explanation of the final project should give the same overview of the entire project but then give more detail on the portion of the project you will be “in charge” of. Also, include any drawings and other pictures that will help convey what you would like to accomplish.

- Read through the ME461 Final Project Document.
- Discuss with your partners what kind of project you would like to complete.
- Talk with me about your ideas for the project. Also talk to me about what part of the project you will be “in charge” of.
- Choose if you will be using along with the F28379D (red board) an OpenMV Camera, Raspberry Pi 4, Raspberry Pi Zero W, ESP32, Raspberry Pi that you own. (This year I am hoping to steer most of you towards using the Segbot so you may not need a Raspberry Pi.)
- Make sure I have approved your project ideas.
- Get from me all the parts and code needed for your project.
- If you are using a Raspberry Pi, one check off item for this project is that you demonstrate your F28379D’s CPU1 communicating data to and from your second processor board. For example if you choose the RPI4, you could get source code from me that communicates using the UART serial ports of the F28379D and the RPI4. I will discuss with you the best way to communicate back a forth to your second processor.
- Submit your individual project proposal by the due date.
- Do not procrastinate. Get your ideas to me soon so we can go back and forth and come up with a project that I approve and so I can make sure you have all needed components.