3: Individual Tasks & ECE Concepts

ECE 403: Homework #3

include in OneNote as a page under each student's section

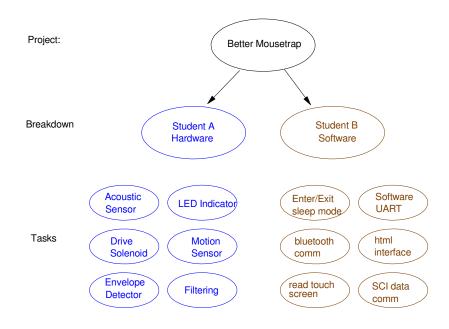
Project Breakdown

Split your project into N sections: one section per student (done in homwork #2: may need revision)

Define the role of each student on your project (done in homework #2: may need revision)

For each student, (each student's section on OneNote - see next page),

- Identify the technical challanges you need to solve in ECE 403
- Identify and list the tasks that need to be completed in ECE 403
- Specify when each task is to be completed in ECE 403 (Gantt chart)



Task		Week														
Student A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Project Selection (HW1)																
Project Breakdown (HW2)																
Build microphone circuit (HW4)																
Add a low-pass filter (HW5)																
Add an envelope detector (HW6)																
Solenoid Driver Circuit (HW7)																
ECE Tools (HW8)																
Sr Design Expo (HW10)																

OneNote

In each student's section, provide

- What your role is in the project,
- A Gantt chart which includes
 - The tasks you need to complete in ECE for, and When you plan on doing each task
- Four advanced ECE concepts you'll use in ECE 403
 - Specify the ECE concept Explain how it will be applied to your section
- Two ECE tools you'll use in ECE 403

Oscilloscopes, multimeters, programmers, debuggers, spectrum analyzers, etc.

	SD403_Fa23_xx						
Sections	Pages Within Section	Page Content					
Contact List	Group Contact Info	Student A: phone, email Student B: phone, email Sponsor: email					
HW2: Requirements	Overall System Description & Requirements	Project Description How you'll split into N sections Role of each student on project					
Student A hardware	HW3: Tasks & Concepts	Your role in the project List of tasks you need to complete in ECE 403 Gantt chart showing when tasks are to be done					
	HW4: Acoustic Sensor Instrumentation Amplifiers	ECE Concept #1					
	HW5: Analog Filters Butterworth Active Filter	ECE Concept #2					
	HW6: Envelope Detector Op-Amp Circuits	ECE Concept #3					
	HW7: Driving Solenoids MOSFET switch	ECE Concept #4					
	HW8: ECE Tools	Two tools used in design					
	HW10: Sr Design Expo						
Student B software	HW3: Tasks & Concepts	Your role in the project List of tasks you need to complete in ECE 403 Gantt chart showing when tasks are to be done					
	HW4: Enter-Exit Sleep Mode Top-Down C Programming	ECE Concept #1					
	HW5: Software UART Interrupts for Timing	ECE Concept #2					
	HW6: Bluetooth Comm SCI data communications	ECE Concept #3					
	HW7: Reading Touch Screens SPI data communications	ECE Concept #4					
	HW8: ECE Tools	Two tools used in design					
	HW10: Sr Design Expo						