ece411 Project Schedule

Oct 30, 2023

http://

Project manager	
Project dates	Oct 30, 2023 - Dec 8, 2023
Completion	0%
Tasks	16
Resources	4

Project schedule for ece411 team5's audio visualizer.

Tasks

Name	Begin date	End date
Breadboard Prototype	10/30/23	11/1/23
Create a breadboard prototype of the audio visualizer. Done by putting all the components together onto a BB and using wires on hand to connect the circuit.		
Updated Schematic and Preliminary Layout	10/30/23	11/1/23
Your schematic should now be much closer to completion. *Your preliminary board layout should have all of your major components on it, including power supply, sensor, controller, and actuator. It should have a vaguely reasonable board outline. It doesn't have to be fully routed, or even halfway routed, but components should be grouped together, and components should be put in sane places.* *And, of course, make sure this is checked in under version control!* *Submit it in TWO WAYS:* *Print a PDF of your schematic and board layout and upload it to Canvas.* *Enter a URL to your collaboration site to the folder where your schematic and layout files are checked in.*		
Code Microphone	11/3/23	11/7/23
Interface microphone component with ESP32 and make it functional.		
Code LED Control	11/3/23	11/7/23
Interface 8x32 LED panel with ESP32 and be able to control it. Basic control being able to light up "bars" to represent the incoming frequencies.		
Code Frequency Analyzer	11/3/23	11/7/23
Code a frequency analyzer (FFS) onto the ESP32.		
Combine and Test Code	11/8/23	11/12/23
Combine the code from each component to get a working audio visualizer prototype.		
Debug and Fix	11/13/23	11/17/23
Debug the combined code and fix any errors.		
Bill of Materials	11/4/23	11/5/23
Final BOM filled here: *https://docs.google.com/spreadsheets/d/1jbas32DcEDZ59e13n7u7allfJYj-6RpcqCJsSKwKe8E/edit?usp=sharing* *Make sure to upload to GitHub*		
Rough Draft of CAD	11/5/23	11/7/23
The only things left are changes for out of stock components, changes from design reviews, changes for DFX, etc.! *And, of course, make sure this is checked in under version control!* *Submit it in TWO WAYS:* *Print a PDF of your schematic and board layout and upload it to Canvas.* *Enter a URL to your collaboration site to the folder where your schematic and layout files are checked in.*		
Functional Decomposition	11/4/23	11/6/23
Draw a top-level (Level 0) block diagram of your practicum project showing all inputs and outputs. *Draw a Level 1 block diagram showing the principal components or modules of your project along with the interconnections between them. LABEL ALL INTERCONNECTIONS.* *Consult the lecture slides for proper format for capturing the block diagram and describing inputs and outputs.* *Post these to your collab site and upload a PDF to Canvas.*		
Design Review	11/11/23	11/14/23
Have at least one other team design review your schematic and layout. Bonus points for more than one design review by more than one team. Be attentive! Take notes! *Submit which team(s) (use their team number) did your design review(s).*		

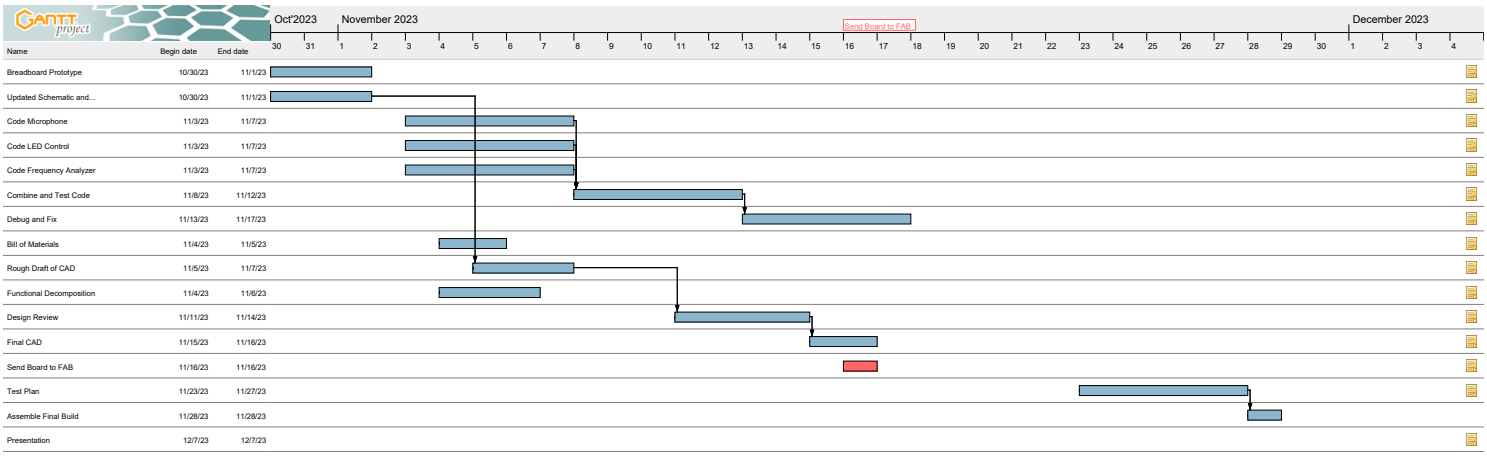
Tasks

Name	Begin date	End date
Final CAD	11/15/23	11/16/23
After your design review, fix all of the critical issues, go through all the checklists again, and then declare it done! *And of course, check it in to your versioning system!* *Submit it in TWO WAYS:* *Print a PDF of your schematic and board layout and upload it to Canvas.* *Enter a URL to your collaboration site to the folder where your schematic and layout files are checked i*		
Send Board to FAB	11/16/23	11/16/23
Must be sent between 12 p.m. Thursday and 10 a.m. Friday.		
Test Plan	11/23/23	11/27/23
Create a comprehensive hierarchical test plan for your practicum project. Consult the course lecture notes for guidelines. Submit at least three test plans (see optional testing template document). *Create detailed test case descriptions for two tests included in your test plan.* *Your work will be graded on completeness, conformance to design documentation requirements as described in class, and quality and clarity of the individual test cases.* *Post these to your team wiki and upload a single PDF file of them to Canvas.*		
Assemble Final Build	11/28/23	11/28/23
Presentation	12/7/23	12/7/23
30 minutes, either Thursday or Friday		

Resources

Name	Default role
Gene Hu	developer
Flynn	developer
Meshal	developer
Aziz	developer

Gantt Chart


Oct'2023
November 2023
December 2023
Send Board to FAB
30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4
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Resources Chart