



UNIVERSITY OF
ILLINOIS
URBANA-CHAMPAIGN

ECE 198 JS (James Scholar)

Electrical & Computer Engineering

Lecture 4
Finalizing the Proposal

Attendance will now be taken during lab as your Mentor visits and talks to your team.



Category	Explanation	Strong	Average	Needs Work
Project - Scope	As a one-credit course (4 hrs/week), is the proposed project appropriate for first-year students?	Major challenges can be reasonably solved by new students.	Not all challenges may be met or more may need to be added, but project should reasonably succeed.	Project is asking of superhuman effort or no innovation from first-year students.
Project - Design	Does the project follow a format of input, processing, and output with the majority of the work being electrical hardware in the processing step?	This project falls under the design requirements laid out for the students	This project is close to the expectations of the class, the team may need minor modifications and adjustments to add more electrical blocks or subcircuits	The project has little significant electric processing plans or has an overreliance on Arduino or other microprocessors

Category	Explanation	Strong	Average	Needs Work
Project - Timeline	Is the breakdown provided a reasonable approach to completing the design?	Week-by-week plan has appropriate detail.	Week-by-week plan is vague in many places.	Plan is very vague or missing entirely.
Project - Milestones	Does the testing plan allow the team to demonstrate short-term success?	Two or more experiments are planned to demonstrate sub-block functionality.	One solid plan to demonstrate sub-block functionality.	Project depends solely on the project fully functioning on the final day.

Final Proposal Rubric



Category	Explanation	Strong	Average	Needs Work
Project - Details	Could a Course Assistant follow this proposal and make forward motion on such a project?	Details of the design may not be accurate, but the background info and plan make me believe I could get a strong start.	There is detail here, but I feel a little uncertain I understand the project or how to get started.	It would need a lot more detail before I would feel confident in adopting this project as my own.
Background Research	Has the team thoroughly researched similar existing projects and demonstrated knowledge of the circuits that may be required to finish the project?	The team has researched various sources and cites them. They acknowledge and looked into several circuit designs that may be helpful.	The team has demonstrated a decent understanding of similar projects and how it could be implemented	The team has not done research into similar projects and/or does not look into the various circuits necessary
Parts List	Has the team created a rudimentary parts list that details the major components that they may need?	Parts list is clear and makes note of parts we likely need to buy	Parts list could be more extensive for a proposal	Parts list is not added or does not consider the major necessary components

Meeting Date: February XX, 2024

Category	Explanation	Promising	Within Expectations	Falling Behind
Progress	Has the project progressed to be on pace within the last week? This is evident by schematics, research, measurements, plots, photos, and/or videos as appropriate.	Demonstrates significant strides in the project within the last week, supported by comprehensive evidence. Progress aligns well with the established timeline.	Shows evident progress with tangible elements like schematics or research, though the depth may vary. The advancement is on track with the project timeline but may not be robust.	Exhibits limited or no tangible evidence of project advancement within the last week, indicating a lack of progress and potential deviation from the timeline.
Challenges	What challenges were faced during the last week? How were these addressed and is there a reasonable path forward from them? Make note of feedback and help you've received from course staff or resources you used.	Effectively identifies ongoing challenges and addresses them. Acknowledges and utilizes feedback or assistance received from course staff or other resources.	Describes encountered challenges and outlines strategies for resolution. Acknowledges some feedback or assistance received.	Struggles to identify or address challenges faced during the week. Limited acknowledgment of feedback or assistance, indicating potential ongoing issues.
Plans	Is there a reasonable plan for the next week to keep on track? Are there any tests or milestones to be presented, does this follow the timeline planned in the proposal?	Presents a reasonable plan for the next week, incorporating tests or milestones aligned with the project timeline.	Outlines a plan for the upcoming week, though it may lack some detail or cohesiveness.	Fails to provide a reasonable plan for the upcoming week. There is absence of tests or milestones, or a misalignment with the proposed (possibly updated) timeline.

Contributions: Student X worked on..., Student Y worked on...

- Project Proposal due Sunday, February 11, at 11:59:59pm (10%)
- Mini-Project submitted by Sunday, February 18, at 11:59:59pm (5%)
- Journal (mentor assessment) submitted by Sunday, February 25, at 11:59pm (12.5%)
- Journal (mentor assessment) submitted by Sunday, March 17, at 11:59pm [end of spring break] (12.5%)
- Journal (mentor assessment) submitted by Sunday, March 31, at 11:59pm [Easter] (12.5%)
- Midterm Progress Report and Video Demonstrations submitted by Sunday, April 7, (10%)
- Journal (mentor assessment) submitted by Sunday, April 14, at 11:59pm (12.5%)
- Final Demonstration in-class April 23/25 [or, as scheduled] (10%)
- Final Report and Video submitted by Sunday, April 28, at 11:59pm (15%)

Next ...

- Final Proposals are due Sunday, February 11 at midnight for JS1 and JS2.
- Work on Mini-Project this week and next week.