

Project Timeline Worksheet

For this activity, I want you to think about what you want to be presenting on November 18th (in 13 weeks), and the steps you need to take to get there.

Week		Class	Goals	Important Deadlines
Week 1	Aug 29–Sep 1	Capstone Project	Kickoff: confirm scope; define MQTT topics (communication via Pi's and HA), create task board/ Timeline worksheet	
Week 2	Sep 2–Sep 8	Capstone Project	D1 core: build UI screens & nav (Sleep/Focus/Calm); publish to user; Receiver Pi service; attempt bulb pairing.	
Week 3	Sep 9–Sep 12	Capstone Project	D1 finish: fallback LED (if needed); smoke tests, demo script. Goal: have app modes, Pi's can send command to bulb, bulb shows change in color, demo video	Deliverable 1 due 9/12
Week 4	Sep 13–Sep 19	Capstone Project	D2 app features: settings UI (per-mode color/intensity); Refine app. If able to, add more features: communicate with display, work on UI custom features like user customizability for app (color change, for app screen and color change for modes)	
Week 5	Sep 20–Sep 26	Capstone Project	D2 logic: scheduling triggers (figure out what commands trigger what color for bulbs, iron out any necessary commands for communication), work on enclosure (start to polish CAD model/ multiple designs)	

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Week 6	Sep 27–Oct 3	Capstone Project	D2 design: finalize CAD v1; print fit/vent tests; run tests #1, write down observations (see if Raspberry Pi fits properly, bulb fits, make changes as needed)	
Week 7	Oct 4–Oct 10	Capstone Project	D2 Goal: Have app full flushed out, works with multiple colors, has some user customizability (if time allows) and present start of CAD designs leading up to final design	Deliverable 2 due 10/10
Week 8	Oct 11–Oct 17	Capstone Project	D3 build: final CAD design; kick off long prints; fine tune app (see if errors, check commands, add additional features if time allows)	
Week 9	Oct 18–Oct 24	Capstone Project	D3 finish: assemble lamp; thermal test (see how pi's function in enclosure); finalize docs (document changes); demo prep. Goal: have everything in enclosure, present final CAD designs/ earlier designs, (hopefully) present finished product	Deliverable 3 due 10/24
	Fri, 09/19	In-class user testing		
Week 6	Wed, 09/24			
	Fri, 09/26			M2. Mentor meeting report P2. User testing reflection
Week 7	Wed, 10/01			
	Fri, 10/03	Academic writing and communication.		
Week 8	Wed, 10/08			P3. Title, abstract, and paper outline due

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	Fri, 10/10	Deliverable presentations + user testing		P4. Second Deliverable
Week 9	Wed, 10/15			P5. Symposium abstracts due
	Thu, 10/16	Symposium Abstract Deadline		
	Fri, 10/17			M3. Mentor meeting report
Week 10	Wed, 10/22			
	Fri, 10/24	Deliverable presentations + user testing		P6. Third Deliverable
Week 11	Wed, 10/29			
	Fri, 10/31			
Week 12	Wed, 11/05	Practice Presentations		
	Fri, 11/07	Practice Presentations		M4. Mentor meeting report
Week 13	Wed, 11/12	Practice Presentations		
	Fri, 11/14	Practice Presentations		
Week 14	Mo, 11/17	Practice Presentations (final prep)		P7. Link to presentation materials + slides
	Tu, 11/18	SYMPOSIUM		
	Wed, 11/19			
	Fri, 11/21			P8. Draft final report due
Week 15	Wed, 11/26	Thanksgiving Break		
	Fri, 11/28	Thanksgiving Break		
Week 16	Wed, 12/03			
	Fri, 12/05			P9. Final report due P10. Project video