

Task Category	Task List (each item should be less than a day task)	
Computer Aided Design	Add the components to a cardboard model	Minimum Feature
	Design the overall 3D Model	Minimum Feature
	Add mounts and fixture to the 3D model	Minimum Feature
	Assemble 3D model parts	Minimum Feature
	Buffer for implemeting design improvements during the design pro	Minimum Feature
	Implement design improvements after cardboard model	Minimum Feature
	Render the 3D model	Complete Feature
	Design improvements for Tank	Complete Feature
Digital Fabrication	Mill new PCB	Minimum Feature
	Solder and Stuff PCB	Minimum Feature
	3D print final project parts 1	Minimum Feature
	3D print final project parts 2	Minimum Feature
	3D print final project parts 3	Minimum Feature
	Vinyl cutting copper for step response	Nice-to-have Feature
	Fabricate Final PCB	Minimum Feature
	Re-Fabricate Final PCB	Minimum Feature
	3D print Tank improvement	Complete Feature
	Fabricate Soil Moisture Sensor	Nice-to-have Feature
Electronics & Programming	Check the inventory for the parts (electrical and mechanical)	Minimum Feature
	Purchase the components	Minimum Feature
	Test PCB with full pins	Minimum Feature
	Code TFT	Nice-to-have Feature
	Full Code for Project without communication with the APP	Minimum Feature
	UI App	Complete Feature
	Program App & Xiao	Complete Feature
	AI Assistance chat interface for tips and tricks	Nice-to-have Feature
	Edits on PCB based on powering	Minimum Feature
	Test Electronics (maybe buck converter)	Minimum Feature
	Final Final PCB Design (Add regulator and buck converter)	Minimum Feature
	Test 5V pump	Minimum Feature
	Understand electronics and prepare for final wiring	Minimum Feature
	Integrating code 1	Minimum Feature
	Integrating code 2 - fixing problems	Minimum Feature
	Design Soil Moisture Sensor	Nice-to-have Feature
Integration & Testing	Assemble parts	Minimum Feature
	Integrate full code and test	Minimum Feature
	Final Assembly before video	Minimum Feature
	Shoot the video	Minimum Feature
	Process the video shots and make the final presentation	Minimum Feature
	Make the final poster	Minimum Feature
	Work on Final Project documentations (1)	Minimum Feature
	Work on Final Project documentations (2)	Minimum Feature
	System Integration	Minimum Feature
	Final Project Development Page	Minimum Feature
	Final System Integration	Minimum Feature