Posture Pad Gantt Chart

Nov 6, 2025

Project manager	
Project dates	Sep 29, 2025 - Dec 14, 2025
Completion	31%
Tasks	55
Resources	4

Tasks

Name	Begin date	End date
Class Deliverables	9/29/25	12/13/25
Start of Term	9/29/25	9/29/25
Team Creation	9/30/25	9/30/25
Scheduling	10/1/25	10/3/25
Project Ideas	10/4/25	10/9/25
Design Specifications	10/10/25	10/16/25
Made a Decision	10/17/25	10/23/25
Project Schedule	10/24/25	10/30/25
Functional Decomposition	10/31/25	11/6/25
Sign up for Practicum Demo	11/27/25	11/28/25
Test Plan	11/29/25	11/29/25
Prepare Presentation Slides	12/3/25	12/7/25
Demo	12/8/25	12/12/25
CATME Surveys	12/12/25	12/13/25
Order Parts	10/24/25	11/12/25
Foam Mat	10/24/25	10/29/25
Force Sensitive Resistor 402	10/24/25	10/29/25
Velostat	10/24/25	10/29/25
Plastic Sheets	10/24/25	10/29/25
Multiplexers	11/2/25	11/6/25
Force Sensitive Resistor 406	11/6/25	11/12/25
Hardware and Housing	11/5/25	12/2/25
Foam Experimenation	11/5/25	11/9/25
Small-scale foam prototypes	11/5/25	11/10/25
Select Optimal Foam Config	11/11/25	11/11/25
Perform compression and repeated-load testing	11/12/25	11/15/25
Develop prelim CAD model	11/5/25	11/14/25

Tasks

Name	Begin date	End date
Determine Sensor Layout	11/5/25	11/14/25
Finalize mechanical design	11/16/25	11/16/25
Build Initial Breadboard Circuit	11/5/25	11/8/25
Confirm Mux Channel Switching	11/9/25	11/9/25
Validate Power Reqs	11/9/25	11/9/25
Scale Prototype to handle multiple FSRs via multiplexing	11/10/25	11/13/25
Test scan timing, address selection, and signal integrity for multiple channels	11/14/25	11/14/25
Evaluate Input Protection and Transient Suppression	11/5/25	11/15/25
Update Schematic	11/16/25	11/17/25
KiCAD model to OSH Park	11/18/25	11/18/25
Compile CAD, Schematics	11/19/25	12/2/25
Summarize Test Results	11/19/25	12/2/25
Software and Firmware	11/5/25	12/1/25
Define software and firmware requirements	11/5/25	11/5/25
Select development environment	11/6/25	11/6/25
Set up microcontroller toolchain	11/7/25	11/8/25
Read raw values from the FSRs using analog	11/9/25	11/11/25
Implement sensor calibration logic	11/9/25	11/10/25
Implement digital filtering/averaging to smooth out noise	11/12/25	11/14/25
Design and implement posture detection algorithm	11/15/25	11/16/25
Design and implement posture classification algorithm	11/17/25	11/20/25
Design and implement posture duration tracking algorithm	11/17/25	11/18/25
Implement full posture correction algorithm	11/21/25	11/23/25
Configure Bluetooth/Wi-Fi connectivity for data output	11/9/25	11/11/25
Create GUI for data visualization	11/7/25	11/11/25
Integrate GUI with the device to interpret sensor data	11/24/25	11/26/25
Full system integration test	11/27/25	11/29/25

Tasks

Name	Begin date	End date
Debug and optimize performance	11/30/25	12/1/25

Resources

Name	Default role
Jake Milroy	Hardware and Housing Team
Ivan Herrera Moreno	Hardware and Housing Team
Hussein Khodor	Software and Firmware Team
David Huang	Software and Firmware Team

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