

Texas A&M University at Qatar

Electrical and Computer Engineering Program ECEN 403

MILESTONES AND VALIDATION PLAN

Project Title: Interactive Campus Guide Robot

Semester: Summer 2025 **Mentor:** Dr. Jim ji

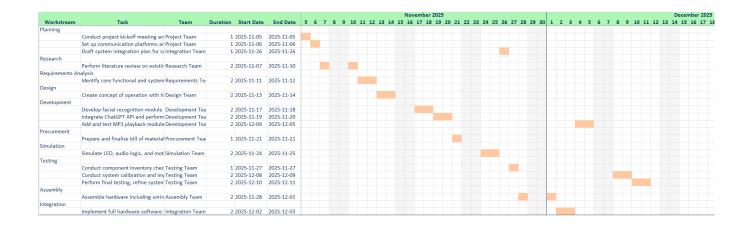
Team members:

Noor AlMohammadi Amna Al-Zeyara Maryam Al-Obaidan

Submit date: 22/06/2025

SCHEDULE

Execution Plan for Interactive Campus Guide Robot - Fall 2025



VALIDATION PLAN

Validation Plan for Interactive Campus Guide Robot Summer 2025 - Fall 2025

Task	Deadline (week)	Current Status
Project Kickoff & Role Assignment	1 (first semester)	Completed
Literature Review	2	Completed
Define Functional & System Requirements	3	Completed
Concept of Operation (ConOps)	4	Completed
Software: Facial Recognition Module	5,6	Completed
GPT API Integration & Logic Testing	7,8	On schedule/ In progress
Prepare Bill of Materials (BoM)	9	On schedule/In progress
Simulation: LED, Audio Logic & Motion Flow	10	On schedule/In progress
System Integration Plan	11	On schedule/In progress
Progress Report & Presentation	12,13	On schedule/In progress
Component Inventory Check	1(second semester)	On schedule/ In progress
Hardware Assembly (Wiring + Mounting)	2,3	On schedule/ In progress
Full Hardware-Software Integration	4,5	On schedule/In progress
Add MP3 Playback Module & Audio Amplifier	6	On schedule/ In progress
Motor Behavior Implementation (Servo)	7	On schedule/ In progress
System Calibration & Error Handling	8,9	On schedule/ In progress
Real-World Testing & Refinement	10	On schedule/ In progress
Final Demo Preparation	11	On schedule/In progress