V2C ADAS Nexus: Bridging Safety and Connectivity

ITI NEXUS TEAM

ITI NEXUS — Bridging Safety and Connectivity

Project Start Date: 10-1-2023 (Sunday) | Display Week: 1

Project Lead: **Mohamed Reda**

WBS	Requirements Analysis	LEAD	START	END	DAYS	% DONE	WORK DAYS
1	**Preparation Phase**			-			-
1.1	Summary document to visualize the project	reda	Sun 10-01-23	Mon 10-02-23	2	100%	2
1.2	Summary document to visualize the project	abdelhamid	Sun 10-01-23	Mon 10-02-23	2	100%	2
1.3	Summary document to visualize the project	yasmeen	Sun 10-01-23	Mon 10-02-23	2	100%	2
1.4	Summary document to visualize the project	mostafa	Sun 10-01-23	Mon 10-02-23	2	100%	2
1.5	Summary document to visualize the project	mario	Sun 10-01-23	Mon 10-02-23	2	100%	2
1.6	Summary document to visualize the project	amr	Sun 10-01-23	Mon 10-02-23	2	100%	2
2	**Requirements Analysis**			-			-
2.1	Determine project scope	All of Us	Tue 10-03-23	Thu 10-05-23	3	100%	3
2.2	Components list - Features	amr - abdelhamid - yasmen	Tue 10-03-23	Thu 10-05-23	3	100%	3
2.3	Research - data collection	yasmeen	Tue 10-03-23	Thu 10-05-23	3	100%	3
2.4	voice control assist	abdelhamid - mostafa	Tue 10-03-23	Thu 10-05-23	3	100%	3
2.5	ADAS features	mario - mostafa - amr	Tue 10-03-23	Thu 10-05-23	3	100%	3
2.6	Documentation	All of Us	Tue 10-03-23	Thu 10-05-23	3	100%	3
3	**Design Phase**			-			-
3.1	Architecture Design for project	reda - mostafa	Sat 10-07-23	Mon 10-09-23	3	100%	3
3.2	Blind SpoT Asssist Architecture	yasmen - mario	Sat 10-07-23	Mon 10-09-23	3	100%	3
3.3	Voice control assistant Architecture	abdelhamid - mostafa	Sat 10-07-23	Mon 10-09-23	3	100%	3
3.4	Checking how to apply this on stm32 I/O	amr	Sat 10-07-23	Mon 10-09-23	3	100%	3
3.5	Documentation	All of Us	Sat 10-07-23	Mon 10-09-23	3	100%	3
4	**Implementation phase 1**			-			-
4.1	Implement Blind Spot Assist	yasmen - mario	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.2	Running Ultrasonic with STM32	yasmen - mario	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.3	Implement Voice Assist using speech recognition on a Raspberry Pi	abdelhamid - mostafa	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.4	Operating actuators on a Raspberry Pi	abdelhamid - mostafa	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.5	Handling Communication bet. STM and Pi	amr	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.6	Upload code on github	All of Us	Tue 10-10-23	Thu 10-12-23	3	100%	3
4.7	Documentation	All of Us	Tue 10-10-23	Thu 10-12-23	3	100%	3
5	**Implementation phase 2**			-			-
5.1	Discussion about adding an additional feature to the project	All of Us	Sat 10-14-23	Sat 10-14-23	1	100%	1
5.2	Searching how to implement OBD system	All of Us	Sun 10-15-23	Sun 10-15-23	1	100%	1
5.3	Checking UART or SPI to use in Voice Systrm	abdelhamid	Mon 10-16-23	Tue 10-17-23	2	100%	2
5.4	Implement Engine Temperature System	yasmen	Mon 10-16-23	Tue 10-17-23	2	100%	2
5.5	Implement Fuel Level System	amr	Mon 10-16-23	Tue 10-17-23	2	100%	2
5.6	Implement Distance Calculations System	mostafa	Mon 10-16-23	Tue 10-17-23	2	100%	2
5.7	Implement Voice Assistant using Google Assistant	abdelhamid	Mon 10-16-23	Tue 10-17-23	2	100%	2
5.8	Upload code on github	All of Us	Wed 10-18-23	Wed 10-18-23	1	100%	1
5.9	Documentation	All of Us	Wed 10-18-23	Wed 10-18-23	1	100%	1
6	**System Integration & Validation Phase 1**			-			-
6.1	Test Engine Temperature System	mario	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.2	Test Fuel Level System	mario	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.3	Test Distance Calculation System	mario	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.4	Test Voice Assistant System	mario	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.5	Integrating OBD systems	amr	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.6	Integrating OBD and Blind Spot	amr	Sat 10-21-23	Sun 10-22-23	2	100%	2
6.7	Integrating all systems and validating	All of Us	Mon 10-23-23	Wed 10-25-23	3	100%	3
6.8	Upload code on github	All of Us	Mon 10-23-23	Wed 10-25-23	3	100%	3
6.9	Documentation	All of Us	Mon 10-23-23	Wed 10-25-23	3	100%	3
7	**Implementation Cloud - GPS & Validation Phase 2**			-			-
7.1	searching about which Broker	All of Us	Thu 10-26-23	Fri 10-27-23	2	100%	2
7.2	Implement communtication between publisher and subscriber using HiveMQ	yasmen - abdelhamid	Thu 10-26-23	Fri 10-27-23	2	100%	2
7.3	Implement communtication between publisher and subscriber using AWS	amr - mostafa	Thu 10-26-23	Fri 10-27-23	2	100%	2
7.4	Discussion about which Broker AWS or HiveMQ	All of Us	Thu 10-26-23	Fri 10-27-23	2	100%	2
7.5	Send Data from System to Cloud	mostafa - amr	Thu 10-26-23	Fri 10-27-23	2	100%	2
7.6	Display Data on AWS	abdelhamid - yasmen	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.8	Creating AWS Thing	mostafa	Fri 10/27/23	Thu 11-02-23	7	100%	7
7.9	Creating AWS Database (Dyanamodb - S3 Bucket)	mostafa	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.1	GUI to diplay data	yasmen - amr	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.11	GUI wedsite to display data from system	reda - mario	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.13	implement GPS on raspberry pi	abdelhamid - mostafa	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.14	Build image customiztion	yasmen - abdelhamid	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.15	integrating GPS with all systems	amr - mostafa - abdelhamid	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.16	Testing all integrated systems	mario	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.17	Upload code on github	All of Us	Fri 10-27-23	Thu 11-02-23	7	100%	7
7.18	Documentation	All of Us	Fri 10-27-23	Thu 11-02-23	7	100%	7
8	**Documentaion**			-			-
8.1	Logo Design	reda	Fri 11-03-23	Thu 11-09-23	7	100%	7
8.2	Business Case	reda	Fri 11-03-23	Thu 11-09-23	4	100%	7
8.3	Ghantt chart	abdelhamid	Fri 11-03-23	Thu 11-09-23	7	100%	7
8.4	Presentation	All of Us	Fri 11-03-23	Thu 11-09-23	7	100%	7
8.5	Documentation	All of Us	Fri 11-03-23	Sun 11-12-23	9	40%	7
TEMPLATE ROWS							
See the Help worksheet to learn how to use these rows. You can hide these rows before printing.							
1	**[Level 1 Task or Phase]**			-			-
0.1	. [Level 2 Task]			-			-
0.0.1	. . [Level 3 Task]			-			-
0.0.0.1	. . . [Level 4 Task]			-			-