PROJECT START DATE

Capstone Group A4: RecycleBot Wednesday, September 14, 2022

						Wk 1	Wk 2	Wk 3	v	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8		Wk 9	Wk 10		Wk 11	Wk 12	Wk 1	13
ASKS	TASK OWNER	STATUS	START DATE	END DATE	DAYS	9/12 9/13 9/14 9/15 9/16	9/19 9/20 9/21 9/22 9/	23 9/26 9/27 9/28	9/29 9/30 1	10/3 10/4 10/5 10/6	10/7 10/10 10/11 10/12 10/13 10	/14 10/17 10/18 10/19 10/	10/21 10/24 10/25 10/26 10/27	10/28 10/31 11/	1 11/2 11/3 1	1/4 11/7 11/8 11/9 11/10 1	/11 11/14 11/15 11/	16 11/17 11	1/18 11/21 11/22	2 11/23 11/24 11/25 11/28 11/29 11/3	12/1 12/2 12/5	5 STATUS
Deadlines																						In Progress
Project proposal presentation	Serena	Complete	09/16/22	09/19/22	2																	Complete
Design presentation	Мае	Complete	09/30/22	10/03/22	2																	Needs Rev
Final presentation	Meghana	Not Started	11/26/22	12/05/22	6																	Canceled
Object Detection and Identification																						Not Started
Dataset generation	Мае	Complete	09/24/22	10/01/22	5																	On Hold
Get model running with initial dataset	Мае	In Progress	10/02/22	10/05/22	3																	
Train model to 90% test accuracy	Мае	Not Started	10/05/22	10/09/22	3																	Overdue
Integrate ML model into Jetson/detection process	Mae/Serena	Not Started	10/10/22	10/14/22																		
Slack time	All	Not Started	10/17/22	10/25/22	7																	
Robot Construction and Software																						
Research design implementations for using iRobot	Meghana	Complete	09/15/22	09/25/22	7																	
Research and design intake and storage	Meghana	Complete	09/20/22	09/26/22	5																	
Order Necessary Parts Materials	All	Complete	09/28/22	10/05/22	6																	
Robot CAD and Design	Meghana	Complete	10/02/22	10/07/22	5																	
Setting up Jetson to iRobot communication	Meghana	Complete	10/10/22	10/14/22	5																	
Prototyping Intake	Meghana	Complete	10/10/22	10/14/22	5																	
Constructing and Building robot	Meghana	In Progress	10/24/22	10/31/22	6																	
Controls to allow robot to intake items	Meghana	Not Started	10/24/22	10/31/22	6																	
Robot driving and intake testing	All	Not Started	10/31/22	11/04/22	5																	
Slack time	All	Not Started	11/05/22	12/02/22	20																	
Navigation and Integration																						
Set up Jetson and Intel Realsense	Serena	In Progress	09/24/22	10/01/22	5																	
Distance perception with LiDAR	Serena	In Progress	10/02/22	10/09/22	7																	
Object tracking algorithm	Serena	In Progress	10/09/22	10/16/22	5																	
Path and angle calculation to motor movement	Serena	Not Started	10/22/22	10/25/22	2																	
Write logic for entire software system	Мае	Not Started	10/22/22	10/25/22	2																	
Put entire software system together	Mae/Serena	Not Started	10/25/22	10/31/22	5																	
Completely merge software and hardware system	All	Not Started	11/01/22	11/08/22	6																	
Slack time	All	Not Started	11/09/22	11/19/22	8																	
Final testing																						
Whole system to detect and pick up 1 water bottle	All	Not Started	11/20/22	11/28/22	6																	
Test system logic for picking up multiple bottles	All	Not Started	11/28/22	12/01/22	4																	
Test fixed bottle environment	All	Not Started	11/20/22	11/28/22	6																	
Test varied bottle environment	All	Not Started	11/28/22	12/01/22	4																	
Slack time	All	Not Started	12/01/22	12/04/22	2																	