

Project Manager: Christian So

Display Week: 1

TASK	Owner	PROGRESS	START	DAYS	END	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Hardware																										
Build Chassis	Christian	100%		11/24/22	3	11/26/22																				
Create Circuit	Christian	100%		11/27/22	4	11/30/22																				
Integrate Power Supply	Christian	100%		12/1/22	3	12/3/22																				
Test Power Supplies	Christian	100%		12/4/22	3	12/6/22																				
Software																										
Research Software Developing with Leap Motion SDK and sensor	Christian	100%		11/28/22	1	11/28/22																				
Create Visual Representation of hand	Beren	100%		11/29/22	3	12/1/22																				
Research on Communication between Leap Motion and Arduino Uno	Christian	100%		12/2/22	3	12/4/22																				
Establish serial communication between Processing and Arduino	Christian	100%		12/4/22	2	12/5/22																				
Research how to hack 393 VEX Motors with Arduino	Christian	100%		12/5/2022	2	12/6/2022																				
Make motors turn forwards and backwards at varying speeds with Arduino	Christian	100%		12/6/2022	2	12/7/2022																				
Make motors turn with Processing serial values	Christian	100%		12/7/2022	1	12/7/2022																				
Create an algorithm to distinguish forwards and backward turning with 8-bit values from Processing	Christian	100%		12/7/2022	4	12/10/2022																				
Create an algorithm to detect hand grabs in in Processing and set the initial handle bar position	Jiahe	100%		12/4/22	2	12/5/22																				
Calculate the error of the handle bar and the position of the hand grabbing	Jiahe	100%		12/5/2022	3	12/7/2022																				
Create Motor class and Motor Header Files	Christian	100%		2/10/2022	2	12/11/2022																				
Implement Motor class	Christian	100%		12/11/22	3	12/13/22																				
Add functions to rotate and resize the graphics	Beren	100%		12/4/2022	3	12/7/22																				
Create PID control system in main	Jiahe	100%		12/6/2022	4	12/9/2022																				
Tune PID for forwards and backwards	Jiahe	100%		12/7/2022	3	12/9/2022																				
Create PID class and PID header files	Jiahe	100%		12/8/2022	3	12/10/2022																				
Implement PID class	Jiahe	100%		12/9/2022	3	12/11/2022																				
Research Graphics Manipulation in Processing	Beren	100%		12/6/2022	4	12/9/2022																				
Add Graphical bar that reacts with hand	Beren	100%		12/7/22	2	12/8/22																				
Add graphical fist to indicate grab	Beren	100%		12/8/2022	3	12/10/2022																				
Make handle bar move on the screen with hand	Christian	100%		2/10/2022	3	2/12/2022																				
Retrieve Yaw value of hand	Jiahe	100%		12/9/22	2	12/10/22																				
Create new turning commands in Motor Class	Christian	100%		2/11/2022	2	12/12/2022																				
Tune PID for turning	Jiahe	100%		12/9/2022	2	12/10/2022																				
Integration																										
Integrate/Tune motor power values for 393 motors in Arduino	Christian	100%		11/29/22	2	11/30/22																				
Run test values from Processing to Arduino through serial communicaiton	Christian	100%		12/4/22	2	12/5/22																				
Test command switching between Processing and Arduino	Christian	100%		12/6/22	3	12/8/22																				
Debug PID	Jiahe	100%		11/29/22	2	11/30/22																				
Tune PID	Jiahe	100%		12/1/22	3	12/3/22																				
Implement turning/tune turning values	Jiahe	100%		11/29/22	2	11/30/22																				
Implement Graphics/tune graphics values	Beren	100%		12/1/22	3	12/3/22																				
Debugging	Team	100%		12/4/22	3	12/8/22																				
Documentation																										
Create Gantt Chart/Project Timeline	Christian	100%		11/28/22	2	11/29/22																				
Project Architecture Slides	Team	100%		11/29/22	9	12/7/22																				
Shoot Video Clips	Team	100%		12/8/22	6	12/13/22																				
Edit Video	Christian	100%		12/14/22	3	12/16/22																				
Final Documentation	Jiahe	100%		11/29/22	4	12/2/22																				
Final Documentation	Beren	100%		11/29/22	4	11/2/22																				
Clean up/Wrap up	Team	100%		12/3/22	3	12/5/22																				
Submit	Team	100%		12/6/22	7	12/12/22																				