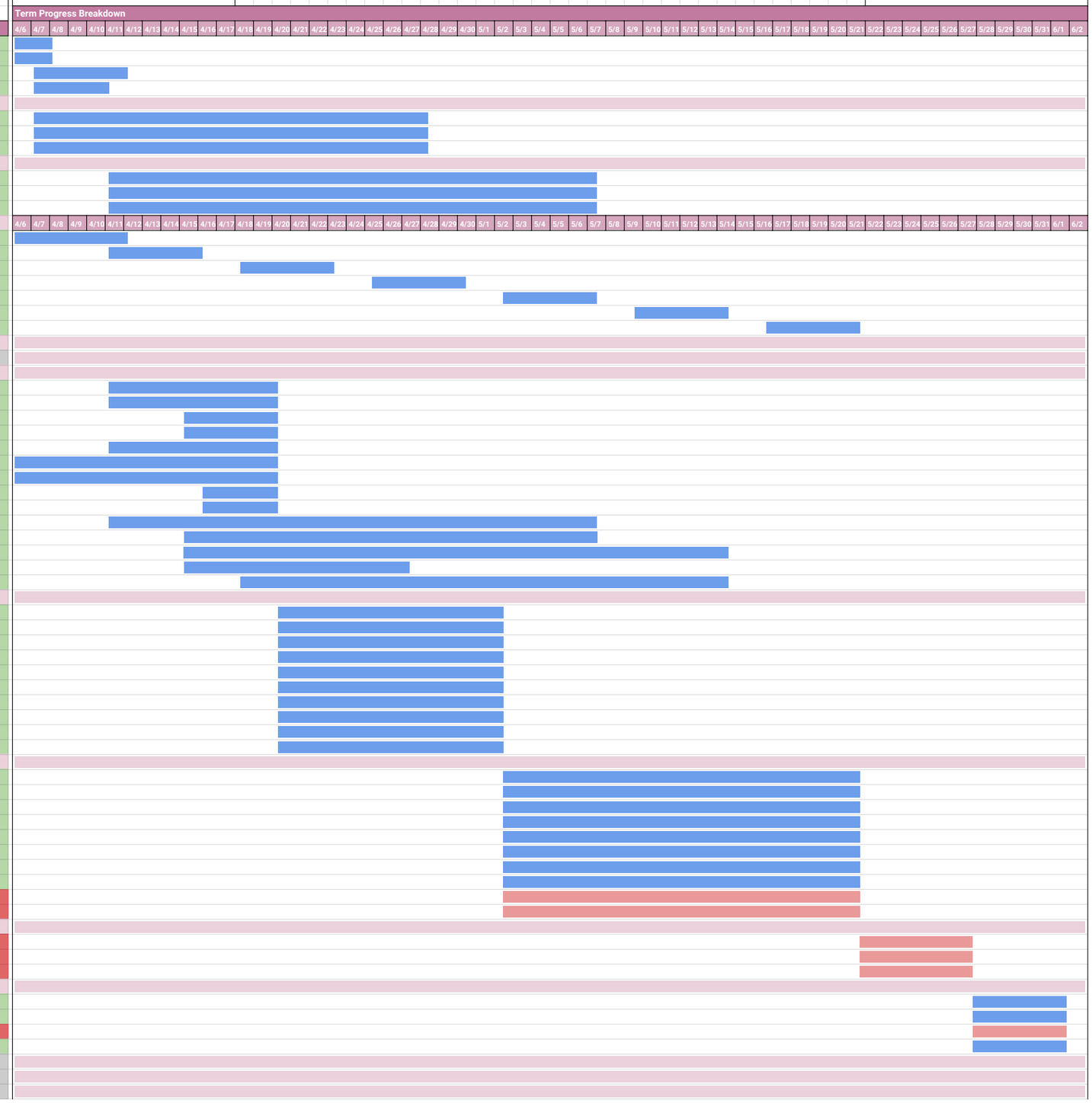
2 - AXIS SCARPA ROBOTIC ARM

ECE 342	START:	4/6/22	GROUP ASSIGNED		Members:	Angel Huang
						Caleb Walker
MAIN ENGINEERING TASKS BEFORE EXPO	END:	6/2/22	EXPO!!!			Lucas Plaisted
						N/A

Task	Project Lead	Start Date	Progress	Remaining	Due Date	Status
Gantt Chart Setup	Group	4/6/2022	100.00%	0.00%	4/7/2022	DONE
Robotic Arm - Additional Engineering Requirements	Group	4/6/2022	100.00%	0.00%	4/7/2022	DONE
Robotic Arm - Timeline	Group	4/7/2022	100.00%	0.00%	4/11/2022	DONE
Robotic Arm - Block Diagram	Group	4/7/2022	100.00%	0.00%	4/10/2022	DONE
Robotic Arm - First Block Diagram						
Block Diagram - Angel	Angel	4/7/2022	100.00%	0.00%	4/27/2022	DONE
Block Diagram - Caleb	Caleb	4/7/2022	100.00%	0.00%	4/27/2022	DONE
Block Diagram - Lucas	Lucas	4/7/2022	100.00%	0.00%	4/27/2022	DONE
Robotic Arm - Second Block Diagram						
Block Diagram - Angel	Angel	4/11/2022	100.00%	0.00%	5/6/2022	DONE
Block Diagram - Caleb	Caleb	4/11/2022	100.00%	0.00%	5/6/2022	DONE
Block Diagram - Lucas	Lucas	4/11/2022	100.00%	0.00%	5/6/2022	DONE
Robotic Arm - Progress Reports						
Progress Report - Wk 12	Group	4/6/2022	100.00%	0.00%	4/11/2022	DONE
Progress Report - Wk 13	Group	4/11/2022	100.00%	0.00%	4/15/2022	DONE
Progress Report - Wk 14	Group	4/18/2022	100.00%	0.00%	4/22/2022	DONE
Progress Report - Wk 15	Group	4/25/2022	100.00%	0.00%	4/29/2022	DONE
Progress Report - Wk 16	Group	5/2/2022	100.00%	0.00%	5/6/2022	DONE
Progress Report - Wk 17	Group	5/9/2022	100.00%	0.00%	5/13/2022	DONE
Progress Report - Wk 18	Group	5/16/2022	100.00%	0.00%	5/20/2022	DONE
Robotic Arm - Misc						
Come up with a memey acronym	Group		0.00%	100.00%		N/A
Robotic Arm - Research and Development						
G-Code Basics	Caleb	4/11/2022	100.00%	0.00%	4/20/2022	DONE
Stepper Motor Basics	Lucas	4/11/2022	100.00%	0.00%	4/20/2022	DONE
Stepper Motor Finalization	Lucas	4/15/2022	100.00%	0.00%	4/20/2022	DONE
Stepper Driver Discrete vs Dedicated IC	Lucas	4/15/2022	100.00%	0.00%	4/20/2022	DONE
Rasberry Pi vs Arduino	Caleb	4/11/2022	100.00%	0.00%	4/20/2022	DONE
Limit Switches (necessity TBD)	Group	4/6/2022	100.00%	0.00%	4/20/2022	DONE
Angular Sensors (necessity TBD)	Group	4/6/2022	100.00%	0.00%	4/20/2022	DONE
Power Requirements Finalizations	Caleb	4/16/2022	100.00%	0.00%	4/20/2022	DONE
Eletrical/Software Components Supplier Selection	Caleb	4/16/2022	100.00%	0.00%	4/20/2022	DONE
SCARA Architecture Research	Angel	4/11/2022	100.00%	0.00%	5/7/2022	DONE
Arm Structure Design	Angel	4/15/2022	100.00%	0.00%	5/7/2022	DONE
Paper Holder Design	Angel	4/15/2022	100.00%	0.00%	5/14/2022	DONE
Tool Holder Design	Angel	4/15/2022	100.00%	0.00%	4/27/2022	DONE
Mechanical Component Supplier Selection	Angel	4/18/2022	100.00%	0.00%	5/14/2022	DONE
Robotic Arm - Prototyping						
Prototype Stepper Motor Driver	Lucas	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype AC-DC Power Regulator (necessity TBD)	Lucas	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype PCB (Deadbug or breadboard)	Lucas	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype Arm	Angel	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype Tool Holder	Angel	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype Paper Holder	Angel	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype Chassis/Enclosure	Angel	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype GUI and GCode Processing	Caleb	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Testing w/ Prototype PCB/Driver/Circuits	Caleb	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Prototype System	Group	4/20/2022	100.00%	0.00%	5/2/2022	DONE
Robotic Arm - Finalization						
Final Stepper Driver	Lucas	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Power Supplies	Lucas	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final PCB	Lucas	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Arm	Angel	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Tool Holder	Angel	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Paper Holder	Angel	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Chassis	Angel	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final Mechanical Integration	Caleb	5/2/2022	100.00%	0.00%	5/21/2022	DONE
Final GUI and GCode Processing	Caleb	5/2/2022	10.00%	90.00%	5/21/2022	OVERDUE
Final Integration	Group	5/2/2022	10.00%	90.00%	5/21/2022	OVERDUE
Robotic Arm - Testing						
G-Code to Arm Motion Testing	Group	5/21/2022	25.00%	75.00%	5/27/2022	OVERDUE
G-Code to Tool Holder Testing	Group	5/21/2022	25.00%	75.00%	5/27/2022	OVERDUE
GUI Input-Output Testing	Group	5/21/2022	25.00%	75.00%	5/27/2022	OVERDUE
Expo						
Draft Presentation	Group	5/27/2022	100.00%	0.00%	6/1/2022	DONE
Final Presentation	Group	5/27/2022	100.00%	0.00%	6/1/2022	DONE
Final Systems Check	Group	5/27/2022	0.00%	100.00%	6/1/2022	OVERDUE
Expo!!!	Group	5/27/2022	100.00%	0.00%	6/1/2022	DONE
			0.00%	100.00%		N/A
			0.00%	100.00%		N/A
			0.00%	100.00%		N/A

Auto bars are not perfect
VERIFY AGAINST DUE DATES

Auto bars are not perfect
VERIFY AGAINST DUE DATES