Week	Date	Tasks to be started	Tasks to be completed (Friday Deadline)
1	1/9-1/15		Time Line
2	1/16-1/22	Rough sketch of design	Rough sketch of design
		Materials List	
		Procure Parts	
		Block Diagram	
		start CAD designs	
3	1/23-1/29	Assemble first ideration of arm	Block Diagram
			Finish CAD designs
4	1/30-2/5	Start programming	Assemble first ideration of arm
5	2/6-2/12	Test first ideration of arm	Test movement functionality
			(having full range of motion)
6	2/13-2/19	Start second ideration of arm	Inital programming finished (draw anything)
			Finish tests and first ideration of arm
7	2/20-2/26	Debugging	Finish and test second ideration of arm
		Additional testing	(Drawing a picture)
8	2/27-3/5	Final system testing	Project to be completed (Soft deadline)
9	3/6-3/12		Project to be completed (Hard deadline)
10	3/13-3/19	PIZZA PARTY!!!!!	High Fives all around

Team Members	Evan Shaw	Peter Hull	Sebastian Thorp	Astrid Delestine

Requirements

Customer Requirement: The system should be fast.

Engineering Requirement: The system must draw faster than 4 inches per second.

Customer Requirement: The system must be accurate.

Engineering Requirement: The system must draw a 10 inch straight line +/- .25 inch. This includes both the overall length of the line and ensuring the line does not vary more than .25 inches of being perfectly straight.

Customer Requirement: The system needs to be inexpensive and manageable to manufacture.

Engineering Requirement: The robotic arm will use a SCARA topology, with two rotating joints to control arm actuation.

Customer Requirement: The system must have a commonly known interface.

Engineering Requirement: Controlling commands will be input as G-code commands. These commands must be made available within the Python or MATLAB GUI.

G0, G1, G90, G91, G20, G21, M2, M6, M72.

Customer Requirement: The system must use different types of writing tools.

Engineering Requirement: Upon receiving an M6 command the machine operator must mount a crayon, pen, or pencil within 15 seconds.

Additional Requirements

Customer Requirement: Automatic tool changer

Engineering Requirement: Add the functionality to connect to a seperate computer to access control to the arm

Customer Requirement: Z axis motor control

Engineering Requirement: Add an additional motor on the base of the stand to control the upward motion of the arm