Robotic Manufacturing Cell

University of Idaho
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Project Start: Monday, 6/11/2018
Display Week: 1

TASK	RESPONSIBLE	PROGRESS	# DAYS	START	END
Documentation		76%		6/11/18	8/3/18
Product Requirement Doc.	ML	100%	16	6/11/18	6/26/18
Product Requirement Doc. Rev 1	ML	100%	1	6/22/18	6/22/18
Product Requirement Doc. Rev 2	ML	100%	1	6/29/18	6/29/18
Product Requirement Doc. Rev 3	ML	100%	1	7/20/18	7/20/18
Manufacturing Cell Diagram	ID	100%	2	7/1/18	7/3/18
Wikipage	ID	100%	6	7/3/18	7/9/18
Portfolio	AA	100%	5	7/2/18	7/6/18
Snapshot 1	AA	100%	5	7/5/18	7/9/18
Design Validation Plan	ML	100%	15	7/2/18	7/16/18
Product Value Proposition	ID	100%	10	7/16/18	7/23/18
Concept Design Review	ID/ML	100%	11	7/16/18	7/26/18
Snapshot 2	ML	100%	6	7/18/18	8/1/18
Team member Citizenship I	ALL MEMBERS	100%	2	7/18/18	7/19/18
Establish Requirements Komp & Conveyor	ML	0%	3	8/13/18	8/15/18
Detailed Design Review	ID/ML	0%	12	9/10/18	9/21/18
Portfolio Review	AA	0%	3	10/25/18	10/27/18
Team member Citizenship I	ALL MEMBERS	0%	1	11/16/18	11/16/18
Protype Design		40%		6/11/18	8/3/18
design Finger push	FA	100%	8	7/9/18	7/16/18
design grippers	FA	100%	8	7/9/18	7/16/18
design fixtures	AA	100%	8	7/9/18	7/16/18
design parts	ML	100%	8	7/9/18	7/16/18
design comp	ID	0%	16	8/22/18	9/7/18
Design Conveyor Belt	ALL Members	0%	16	9/7/18	9/20/18
Conveyor Rams	AA	0%	3	9/7/18	9/9/18
Conveyor Frame	ML	0%	7	9/7/18	9/13/18
Belt tension system	FA/ID	0%	16	9/7/18	9/20/18
Gears	ID	0%	3	9/7/18	9/9/18
Manufacturing		51%		6/11/18	8/1/18
Manufacture finger parts	FA	100%	15	7/16/18	7/30/18
Lathe push finger parts stop washer	FA	100%	1	7/16/18	7/16/18
3D printing push finger holder	ID	100%	2	7/18/18	7/19/18
Laser cut fixtures	AA	100%	15	7/16/18	7/30/18
Manufacturing Gripper	ID	100%	15	7/16/18	7/30/18
3D printing Parts	ID	100%	15	7/16/18	7/30/18
Inspection of manufacturing prototypes	ID	100%	2	7/30/18	7/31/18
Assembly of manufacturing prototypes	ML	100%	2	7/30/18	7/31/18
Testing of prototypes	ML	100%	2	7/30/18	7/31/18
Appraising manufactured parts	ID	100%	2	7/30/18	7/31/18
laser cut Ramp parts	ID	0%	15	8/15/18	9/5/18
Lathe Conveyor Bases	AA	0%	5	9/11/18	9/25/18
Lathe Conveyor Caps	ID	0%	5	9/11/18	9/25/18
Manufacture Conveyor Frame	ML	0%	2	9/11/18	9/24/18
Manufacture Conveyor Tension System	FA/ID	0%	14	9/19/18	10/12/18
Mill Gears	ID	0%	16	9/19/18	10/12/18
Inspection	AA	0%	4	10/12/18	10/15/18
Assembly of Conveyor Belt	FA	0%	7	10/16/18	10/22/18
Purchasing		34%		6/11/18	8/5/18
PLA plastic w/ 3D printer cartridge	FA	100%	6	7/10/18	7/15/18
Bolts	FA	100%	3	7/16/18	7/18/18
Spring	FA	100%	1	7/11/18	7/11/18
Aluminum alloy 6061	FA	0%	2	9/22/18	9/23/18
Belt	FA	0%	3	9/24/18	9/26/18
Bearings	FA	0%	3	9/24/18	9/26/18
Pressure sensor	FA	0%	3	9/24/18	9/26/18
Programming		42%		6/11/18	9/14/18
Establish Arm Protocols	ML	100%	10	7/1/18	7/12/18
Speak w/ Denso Tech Support	ML/ID	100%	10	7/12/18	7/24/18
Establish Scanner Protocol	ID	100%	2	7/17/18	7/19/18
Creating the Code	ML	21%	8	7/16/18	7/25/18
Preliminary Code for Snapshot II	ML	100%	2	7/30/18	7/31/18
Testing	ML/ID	21%	8	7/16/18	7/25/18
Arms Calibration	ID	0%	7	8/3/18	8/9/18
Preliminary Calibration for Snapshot II	AA/FA	100%	2	7/30/18	7/31/18
Arm integration w/ scanner	ID	0%	1	8/27/18	8/27/18
Appraising	FA	0%	2	9/7/18	9/10/18
Establish IP on Arduino	ML	0%	2	10/31/18	10/14/18
Calibrate Final Positions	AA	0%	5	10/18/18	10/22/18
Create a conveyor Code	ML	0%	16	10/21/18	11/13/18
Integrate all 4 equipment	ID	0%	7	11/3/18	11/9/18
Calculations		25%			
Spring Constant (end Effector)		100%	1	7/11/18	7/11/18
Gear transmission Calc.		0%	6	9/21/18	9/28/18
Belt tension Calc.		0%	6	9/21/18	9/28/18
Power consuming Calc.		0%	1	11/26/18	11/26/18