

TASK NAME	RESPONSIBLE	Date	Sep-15					Oct-15					Nov-15					Dec-15					Jan-16					Feb-16					Mar-16					Apr-16					May-16				
			1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	2	9	16	23	1	8	15	22	29	5	12	19	26	3	10								
General System Design	All	September 4, 2015	[Red bar from Sep 1 to Sep 15]																																												
Stator Design		November 17, 2015	[Red bar from Sep 1 to Nov 17]																																												
Research Winding Types	Tim	September 22, 2015	[Red bar from Sep 22 to Sep 29]																																												
Pole and Slot Pitch	Mason	September 22, 2015	[Red bar from Sep 22 to Sep 29]																																												
Pole Depth	All	November 17, 2015	[Red bar from Nov 17 to Nov 24]																																												
Slot/Teeth Ratio	All	October 27, 2015	[Red bar from Oct 27 to Nov 3]																																												
Number of Coil Windings	All	November 17, 2015	[Red bar from Nov 17 to Nov 24]																																												
Purchasing	All	November 30, 2015	[Red bar from Nov 30 to Dec 13]																																												
Construction		February 2, 2016	[Red bar from Jan 25 to Feb 2]																																												
Coil Windings	Mason and Tim	January 25, 2016	[Red bar from Jan 25 to Feb 2]																																												
Stator Mount	Mason and Tim	February 8, 2016	[Red bar from Feb 8 to Feb 15]																																												
Microcontroller Sytem	Tyler	February 8, 2016	[Red bar from Feb 8 to Feb 15]																																												
VFD Programming	Tyler	February 8, 2016	[Red bar from Feb 8 to Feb 15]																																												
Sensor Programming	Tyler	January 25, 2016	[Red bar from Jan 25 to Feb 2]																																												
Implementation	All	February 9, 2016	[Red bar from Feb 9 to Feb 26]																											[Blue bar from Feb 26 to Feb 29]			80%														
Testing	All	March 7, 2016	[Red bar from Feb 9 to Feb 26]																											[Blue bar from Feb 26 to Feb 29]			33%														
Deliverables			[Red bars for various dates: Oct 1, Oct 15, Oct 28, Nov 19, Dec 3, Mar 1, Apr 12, Apr 19, Apr 21, Apr 29, May 3, May 3]																																												
Project Proposal - Oral Presentation	All	October 1, 2015	[Red bar from Sep 1 to Sep 15]																																												
Project Proposal - Written	All	October 15, 2015	[Red bar from Oct 15 to Oct 22]																																												
Webpage Release	All	October 28, 2015	[Red bar from Oct 28 to Nov 4]																																												
Fall Progress Presentation	All	November 19, 2015	[Red bar from Nov 19 to Nov 26]																																												
Fall Performance Evaluation	All	November 19, 2015	[Red bar from Nov 19 to Nov 26]																																												
Fall Performance Review	All	December 3, 2015	[Red bar from Dec 3 to Dec 10]																																												
Design Review	All	March 1, 2016	[Red bar from Feb 26 to Mar 5]																																												
Final Report Draft	All	April 12, 2016	[Red bar from Feb 26 to Mar 5]																																												
Oral Presentation Preparation	All	April 19, 2016	[Red bar from Feb 26 to Mar 5]																																												
Final Project Oral Presentation	All	April 21, 2016	[Red bar from Feb 26 to Mar 5]																																												
Poster Presentation to IAB	All	April 29, 2016	[Red bar from Feb 26 to Mar 5]																																												
Final Project Report	All	May 3, 2016	[Red bar from Feb 26 to Mar 5]																																												
Project Website Verification	All	May 3, 2016	[Red bar from Feb 26 to Mar 5]																																												

The group honed their focus into the completion of the mounting solution for the LIM stator core. With an entire group effort the group was able to complete the mounting of the entire LIM system. Tim had to make a minor adjustment of the hole placement on the base mount to allow for the stator to be aligned correctly under the simulated linear track. The group purchased bolts to use as height adjustment for the simulated linear track in order to obtain the smallest air-gap possible between the copper track and the LIM stator. Added to the stator were plastic pieces in-between the coil wrappings and the stator core. These pieces were added to protect the integrity of the stator core as well as prevent any shorting between the stator and the coil windings.

The VFD was wired to a three-phase AC motor for testing purposes. The group plans on taking speed data from the AC motor and frequency data from the VFD to validate the current theory for frequency and speed relationships for three-phase motors. The plan is to have the entirety of the system ready to begin testing by the end of the week. The current work that needs to be completed before testing can begin is completing the D/A code, minor coil manipulations, phase connections on the LIM, and further aligning between the stator and the simulated linear track's wheel.