ΤΑՏΚ ΝΑΜΕ			Sep-15			Oct-15	Nov-15			Dec-15		Jan-16	F	Feb-16			Mar-16			Apr	-16	May-16
	RESPONSIBLE	Date	1	8 15 22 2	9 6	13 20 27	3 10	17 24	1 8	15 22 29	9 5	12 19 26	5 2	9 16	23	18	15	22 2	9 5	12	19 26	3 10
General System Design	All	September 4, 2015																				
Stator Design		November 17, 2015																				
Research Winding Types	Tim	September 22, 2015																				
Pole and Slot Pitch	Mason	September 22, 2015																				
Pole Depth	All	November 17, 2015																				
Slot/Teeth Ratio	All	October 27, 2015																				
Number of Coil Windings	All	November 17, 2015																				
Purchasing	All	November 30, 2015																				
Construction		February 2, 2016																				
Coil Windings	Mason and Tim	January 25, 2016											1009	%								
Stator Mount	Mason and Tim	February 8, 2016											75%									
Microcontroller Sytem	Tyler	February 8, 2016											80%	6								
VFD Programming	Tyler	February 8, 2016											50%	6								
Sensor Programming	Tyler	January 25, 2016											75%	6								
Implementation	All	February 9, 2016														66%						
Testing	All	March 7, 2016															25	%				
Deliverables																						
Project Proposal - Oral Presentation	All	October 1, 2015																				
Project Proposal - Written	All	October 15, 2015																				
Webpage Release	All	October 28, 2015																				
Fall Progress Presentation	All	November 19, 2015																				
Fall Performance Evaluation	All	November 19, 2015																				
Fall Performance Review	All	December 3, 2015																				
Design Review	All	March 1, 2016																				
Final Report Draft	All	April 12, 2016																				
Oral Presentation Preparation	All	April 19, 2016																				
Final Project Oral Presentation	All	April 21, 2016																				
Poster Presentation to IAB	All	April 29, 2016																				
Final Project Report	All	May 3, 2016																				
Project Website Verification	All	May 3, 2016																				

The group developed a more efficient way of winding the stator coils on the wooden tooth. The time to completely wind a coil decreased from 2 hours to around 30 minutes. The new method of winding the coils used a faster lathe along with some modifications that were made to the original bobbin that was designed. The group needed to modify the original bobbin to include an end piece that allows for the bobbin to fit correctly in the chuck of the new lathe. The modification to the bobbin took about an hour to update, but overall, decreased our coiling time significantly. Over the weekend the group was able to complete seven stator coils, finishing all of the coil windings. It was determined that with four wraps the group was able to get around 240 total wraps per stator tooth. Originally the group planned to have five layers with a goal of completing 217 coil wraps. With the improved efficiency of the wrapping process the group was able to optimize the amount of wraps that could fit onto the stator tooth while minimizing the total amount of layers needed to reach the 217 coil wrapping goal.

Professor Gutschlag was able to unmount the variable frequency drive (VFD) from the downstairs lab in order to allow the group to begin testing the VFD with an 3-phase AC motor. Lenze Tech was contacted to determine whether or not a 3-phase variac could be placed on the output of the VFD to control the voltage input to our motor. Lenze Tech confirmed that placing a variac on the output would not harm the device, and the worst that would happen would be that the onboard screen would give an error, because device was not sensing the expected inductive load. Also this week the group members started compiling the final written report draft.