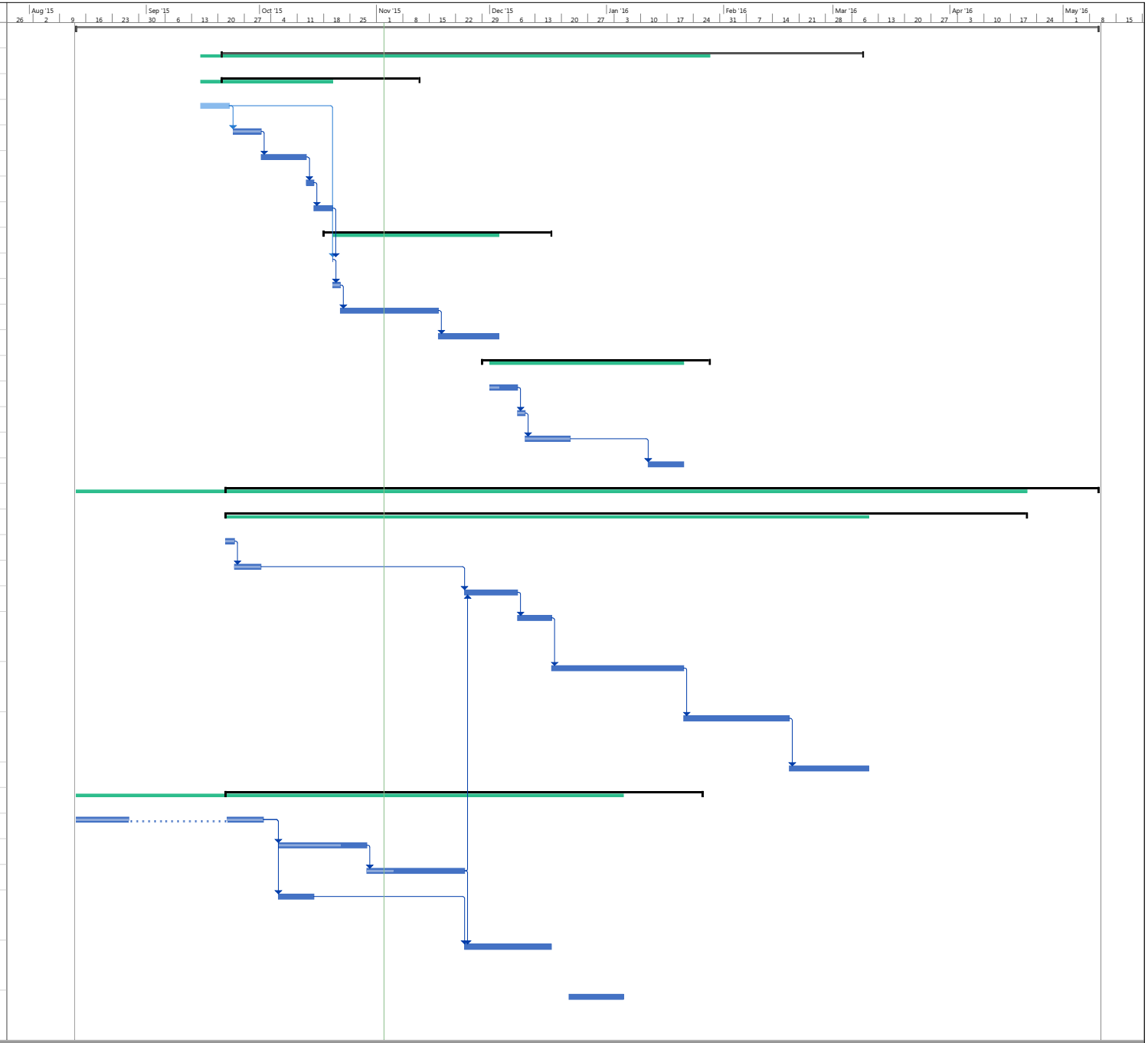
Michael S. Barnes: The past week was spent designing a high side drive MOSFET circuit. This design has allowed me to understand what it will take to drive the high side MOSFET circuit using the motor predriver. The next task to accomplish will be to design an H bridge circuit to control the flow of electricity through a load. At this point my work on this project is on pace to be completed on time.

Evan J. Dinelli: Signal analysis was completed for each component of the navigation system and a final, detailed block diagram was completed. The microcontroller can successfully output character data and string data is in the process of being completed. The next major task in GPS data processing with the ATmega1284 microcontroller. The project work is nearly on schedule and will be on schedule by the progress presentation.

Dan R. Van de Water: Since the progress proposal I have been able to successfully implement SPI functionality on the ATmega644A. My current task is to program the appropriate signals to communicate with the A4960 predriver. My next task is to connect with the predriver and get it operational for use with the FET system. I am not currently behind on my tasks.

ID	Task Name	Duration
0	**Navigation & Thrust System**	**232 hrs**
1	**Navigation System**	**150 hrs**
2	**RC control**	**50 hrs**
3	MCU setup	8 hrs
4	MCU Serial Output	8.5 hrs
5	Read RC control Signals	8 hrs
6	Make sense of signals	3 hrs
7	Create data packets	2.83 hrs
8	**Compass**	**55 hrs**
9	MCU Setup	1.17 hrs
10	MCU Serial output	2 hrs
11	I2c With Compass Unit	21.5 hrs
12	MCU interface with compass	15.5 hrs
13	**GPS**	**55 hrs**
14	MCU setup	6.5 hrs
15	MCU serial transceive	3.17 hrs
16	Connect to serial and read input	8.5 hrs
17	Pass GPS data through MCU	9.67 hrs
18	**Motor control system**	**200 hrs**
19	**FET system**	**185 hrs**
20	One Operating FET	3.33 hrs
21	Two FETs [Low Side; High Side]	6.33 hrs
22	Switch One FET w/ predriver	12.8 hrs
23	Switch Two FETs [Low Side; High Side] w/ Predriver	9 hrs
24	Switch t6 FET system w/ Predriver	30.5 hrs
25	Time Switching to Run One motor	23.5 hrs
26	Impliment Across 4 motors	18.7 hrs
27	**Motor controller**	**110 hrs**
28	MCU serial transceiving	23 hrs
29	MCU Predriver connection	23 hrs
30	Pre-driver operation	19.5 hrs
31	MCU Slave conection with Master motor controller	10.33 hrs
32	Control algorithm implimentation	20.67 hrs
33	Interface with navigation system	13.17 hrs



Project: Navigation & Thrust Sy
Date: Tue 11/3/15

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress