Gantt Chart (10/29-11/3):

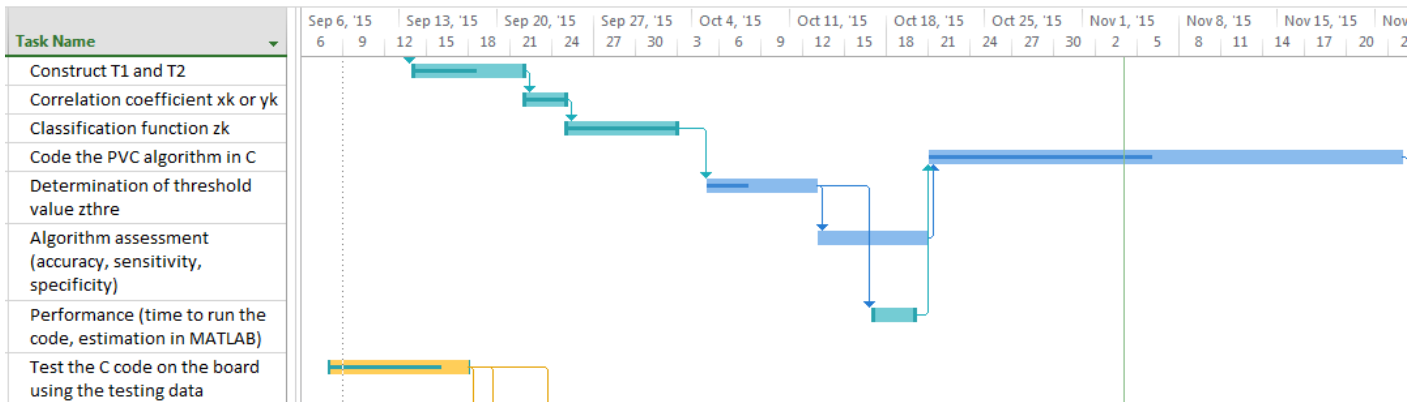| Task Name	Sep 6, '15		Sep 13, '15		Sep 20, '15		Sep 27, '15		Oct 4, '15		Oct 11, '15		Oct 18, '15		Oct 25, '15		Nov 1, '15		Nov 8, '15		Nov 15, '15		Nov
	6	9	12	15	18	21	24	27	30	3	6	9	12	15	18	21	24	27	30	2	5	8	11	14	17	20	2
Construct T1 and T2																											
Correlation coefficient xk or yk																											
Classification function zk																											
Code the PVC algorithm in C																											
Determination of threshold value zthre																											
Algorithm assessment (accuracy, sensitivity, specificity)																											
Performance (time to run the code, estimation in MATLAB)																											
Test the C code on the board using the testing data																											

Progress (10/29-11/3):

The team continued to work on converting the template-matching MATLAB code to C code. The functions $Z\_corr.m$, $normal\_amplt.m$, and $QS\_detect.m$ have each been converted to C code and checked for accuracy. Also, about 80% of the conversion of $T1\_T2.m$ has been completed.

After investigating the reasons behind the template-matching algorithm's low accuracy for certain records, the team concluded that the Pan-Tompkins algorithm may need to be improved.

Lastly, the team successfully implemented the UART DMA testing system. Five minutes of data from records 100, 102, 103, 105, and 106 were sent to the CC3200 using the PC, and the .dat files of the peak locations were obtained.

Goals (11/5-11/10):

The team will continue the conversion to C code by completing $T1\_T2.c$ and integrating the different functions in a single C file. To help locate the cause of the template-matching algorithm's low accuracy, the team will use WFDB toolbox functions to locate the QRS complexes (as opposed to using the team's Pan-Tompkins algorithm). This will verify that the problem lies with our Pan-Tompkins code. Lastly, the .dat files will be used with the WFDB toolbox in MATLAB to determine the accuracy of the implemented Pan-Tompkins code.

Once the .dat files have been analyzed, the team will be on schedule with the C implementation phase of the project. Also, once the cause of the template-matching algorithm's low accuracy has been identified and corrected, the team will be on schedule with the MATLAB simulation phase of the project.