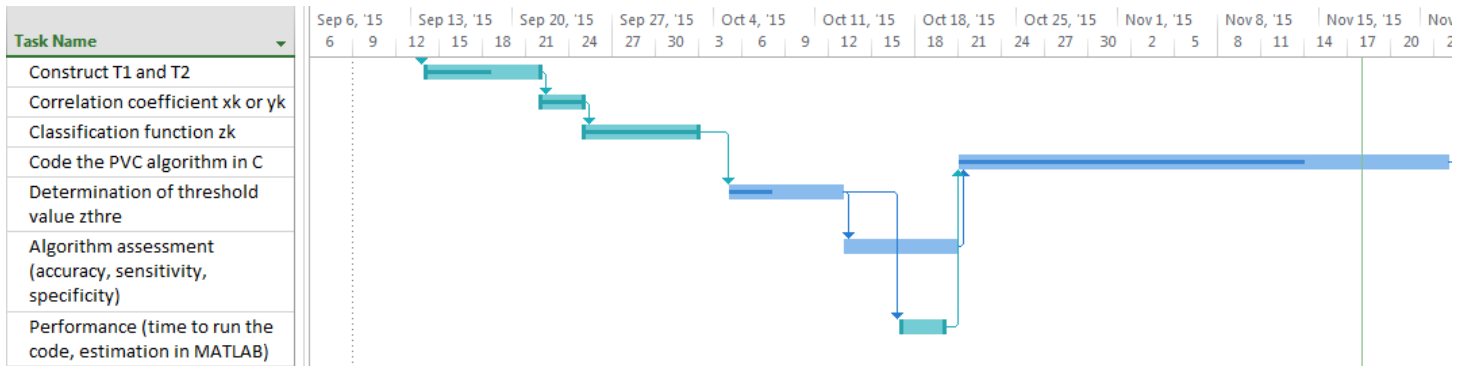


### Gantt Chart (11/12-11/17):



### Progress (11/12-11/17):

The team adjusted the file *Stretch\_Comp.m* and performed further testing on the function before converting the modified function to C. With *Stretch\_Comp.c* completed, the team created a project in Code Composer Studio and added each of the C functions to the project. Next, the main MATLAB file used for testing, *test\_extrapolation.m*, was converted to C, and the template-matching C code was tested on 30 seconds of data from record 100 of the MIT-BIH database. Lastly, the team began the process of integrating the Pan-Tompkins code and the template-matching code by moving the template-matching code into two functions, *generate\_templates()* and *temp\_match()*.

In researching the hypothesis testing method used in the QRS complex detection paper, the team found that obtaining the reference used in the paper ("Detection of Abrupt Changes in Signals and Dynamical Systems," Basseville and Benveniste) will be necessary to understanding the method.

On the wireless end, the team successfully flashed the binary files for the Exosite demo onto the CC3200, but the program did not function correctly. The team next tested the IBM CC3200 demo and was able to view the embedded website and send data from the CC3200 to IBM's server. However, the team is currently investigating how to access the board's embedded web server to view the data sent to IBM while transmitting data.

### Goals (11/19-11/24):

The team will continue to integrate the Pan-Tompkins code and the UART testing system code with the template-matching code. After the integration has been completed, the team will be on schedule with the C implementation phase of the project.

The team is currently working on obtaining the reference needed for hypothesis testing, but the reference will allow the team to finish the template-generation simulation phase and conclude the

MATLAB simulation phase of the project. Lastly, the team will continue to investigate the IBM demo and research the wireless capabilities of the CC3200.