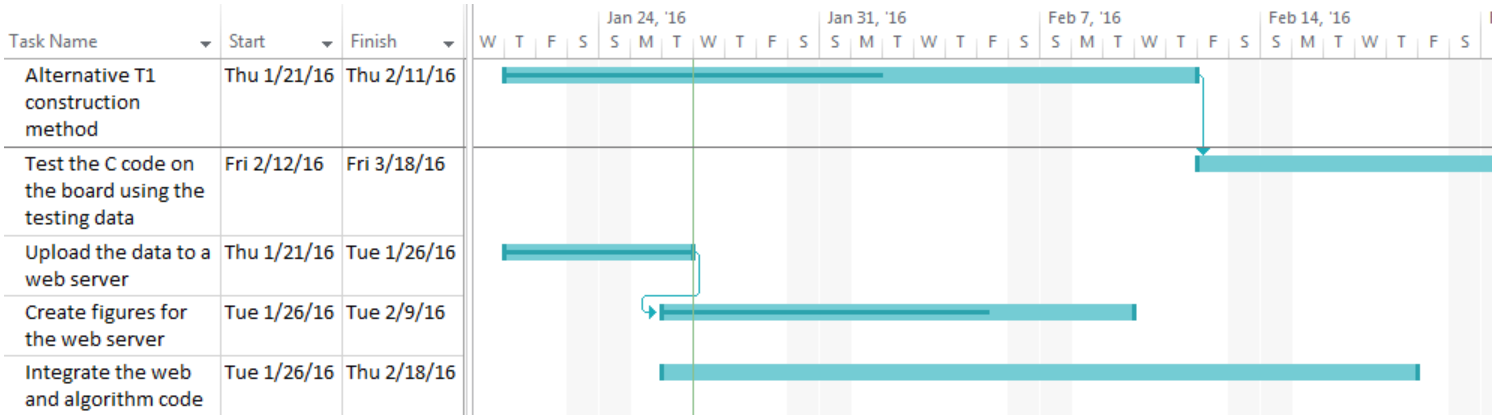
Gantt Chart (1/21-1/26):



Task Name	Start	Finish
Alternative T1 construction method	Thu 1/21/16	Thu 2/11/16
Test the C code on the board using the testing data	Fri 2/12/16	Fri 3/18/16
Upload the data to a web server	Thu 1/21/16	Tue 1/26/16
Create figures for the web server	Tue 1/26/16	Tue 2/9/16
Integrate the web and algorithm code	Tue 1/26/16	Thu 2/18/16

Progress (1/21-1/26):

Over break, the team researched different platforms for wireless communication. Ultimately, the team decided to use the Temboo SMS demo to send a wireless message to the patient's doctor. Also, the team wanted to attach a snapshot of the patient's most recent ECG signal to the text message. The team selected Plotly for this purpose. Lastly, the team researched more ways to determine the onset and offset of the QRS waveform and found that a wavelet transform algorithm may be helpful. These steps allowed the team to be back on schedule with the project.

This week, the team successfully tested a combined Energia sketch of the Temboo and Plotly code. After modifying the provided streaming API for the Arduino, the team was able to send a graph containing an array of data in a text message. The team also worked on simulating the wavelet transform algorithm for QRS onset and offset detection in MATLAB. Finally, the team worked on combining the C algorithm code with the Energia sketch to fully integrate the system.

Goals:

Next, the team will test the wireless communication by graphing an array of three seconds of heart data. Also, the team will continue to integrate the C code with the Energia sketch in Code Composer Studio and implement the logic for sending a text message to the patient's doctor. The wavelet transform MATLAB simulation code will hopefully be completed, and the C code conversion will begin.