Final Project Check Off Sheet

Project Title: Wireless Musical Electrocardiogram

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TA Name: Jenny Lee

TA Signature/Date:

**Design**

- State transition diagrams, Block Diagrams, Code for Wireless Sender and Receiver module. (Amy)
- State transition diagrams, Block Diagrams, Code for Noise Filter module, LED Generator module, Heart-Beat and Rate Detector Module, and Abnormality Detector Module. (Sinit)
- State transition diagrams, Block Diagrams, Code for Tempo module, Music Output module. (Both)

**Functionality**

- Demonstrate correct EKG waves, wireless transmission working. (Amy)
- Demonstrate correct noise filtering on received signal, heart beat detection displayed on LEDs, abnormality detection with output LEDs working. (Sinit)
- Demonstrate outputting of temporally changed music working. (Both)
- Demonstrate all four modes: monitor, heart-rate & beats, music and abnormality working. (Both)

**Discussion**

- How was abnormality detected? What algorithm was used to change tempo for the music? How does binary to decimal conversion work? What was the most challenging part of this project?