Testing of the system will begin by ensuring the battery has a full charge and that the regulator is functioning correctly. We will use test points near the power train wired to an oscilloscope to accomplish this. Second, we will flash the microcontroller with test code that includes heartbeat for the foreground process and all background processes. The oscilloscope will be used to verify the lengths of interrupts. The test code will also include the sawtooth wave generator we wrote to test the DAC previously in Lab 5. Again, the oscilloscope will be connected to test points around the DAC for this purpose. The amp will be sampled to determine if it is within the acceptable range of output. Finally, The test code will play a series of sine waves at varying frequencies and an electronic tuner will be used to verify the correct notes are played.