Accessible Home Vitals
Signs Monitoring System

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Week 7 Accomplishments

- **Rob:** Connected thermometer circuit to microchip and LCD screen
- **Mike:** Worked on the recharge circuit for the monitor
- **Jenna:** Got information on Bluetooth modules that we are going to use, as well as finished up the thermocouple.
Bluetooth

- Jenna contacted A7 engineering for a sponsorship for the Bluetooth Development Kit.
- Though the company cannot offer us a full sponsorship, they can do a 50% sponsorship.
- That is $199 instead of $399.
- Kits either come with 5 or 10 modules (depending on which one we get), so the lab will have extras for future semesters.
Thermocouple

- Purchased a 3.5mm two-way retractable cable
- By pulling the jacks off each end of the cable, we can solder one end to the thermocouple and the other end to the PCB inside the monitor
Recharge Circuit and Battery

- Use of the Batmod Battery Charger
- Provides programmable current and voltage outputs.
Desired output voltage determines the value of the resistors. R1, R2, R3
Recharge Circuit and Battery

- Rhino 12 Volt 3.0Ah Sealed Lead Acid Battery
LCD Display

- Connected thermometer circuit to microchip and LCD screen
- All code compiled fine, but build failed.
Future Work

- **Jenna:** Finish off thermocouple. Add comparator to the circuit. Buy tubing for blood pressure cuff.
- **Rob:** Finish debugging MPLab, look for casings.
- **Mike:** Order and continue to work on Batmod and battery.
Hours Worked

- Rob: 6
- Jenna: 9
- Mike: 7-10
Questions??