Failures

- Hardware doesn’t work.
- Communication between ATTiny85 and Batteries are not working.
Work Done

- I2C communication between Raspberry Pi and Arduino
  - Battery Decision according to the CPU Frequency
- A client that interfaces between DBus and Arduino
- Daemon that tracks the CPU frequency, that aids the power management policy.
D-Bus Integration

- D-Bus is a system that offers a communication channel for multiple programs.
- The session bus is specific for each user, while the system bus is specially designed for the state of the whole system and can change this state (like adding a new storage device, the internet connection suffers some modification)
Mock Batteries

- Battery to ATTiny85 controller communication is not working.
- We implemented two different batteries in the Arduino
  - One Charges and Discharges faster than the other.
- We implemented the charging and discharging functions.
- CPU frequency is the main parameter that governs these functions.
Next Goals

- Increase the quality of the mock batteries.
- Write a program that tracks the number of processes running. So we can use it better simulate the battery usage.
- Start writing power management policies for MinnowBoard.