Pillow Alarm Clock – CI103-066 Team #4

Team Members:

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Abstract:

Many people set an alarm, but sleep through it, or snooze and not wake up. Pillow Alarm Clock project aims to help customers have an easier time waking up, and a better sleeping experience. This product ensures that the user wakes up on time, while making little to no noise. It stops vibrating when its sensor cannot sense your presence, thus making sure the consumers are up when they need to be. Though it is targeted towards college students and families, its simple interface makes it suitable for all users. It presents an innovative way wake up, yet still sleep comfortably.

Pillow Alarm Clock consists of the hardware device and the website. The website provides the point of access for all system functionality and customization. The Adafruit Feather controls the circuit, with the Time Module keeping track of time. Based on the time set through the website, the Feather controls the vibration motors and makes them go off at an appropriate time. The Pressure sensors send data based on whether they sense any pressure applied, thus enabling for tracking sleep data and the snooze aspect of the alarm. MicroSD card stores all of the user's sleep data.