Our idea is a light sensing alarm clock that won’t turn off until it detect light. Meaning you will have to stand up and turn on your lights to turn off the alarm helping ensure you actually wake up rather than just snoozing your alarm and going back to sleep.

As of right now there are only a few parts that we thought of that we will need

1. Arduino, the brains of the whole project
2. Speaker, an alarm has to make noise and hopefully lots of it
3. Photoresistor, this si what is going to determine if you’ve turned on your lights or not. And we will need to take into consideration natural lighting when setting the alarm threshold

From the research done so far, our speaker will be wired up much the same as the little buzzers we’ve already used in class. The photoresistor however will need to be plugged in to one of our analog ports since it will be receiving real world data. It will also need a resistor to ensure that it works properly.

Pseudocode:

Clock ticks real world time

When the clock reaches a certain time sound the alarm through the speaker

The speaker will play an alarm sound

If photoresistor detects enough light then the speaker will be shut off

As the project progresses we may want to add more features to this alarm clock to make it even more useful.