Sleep Catcher

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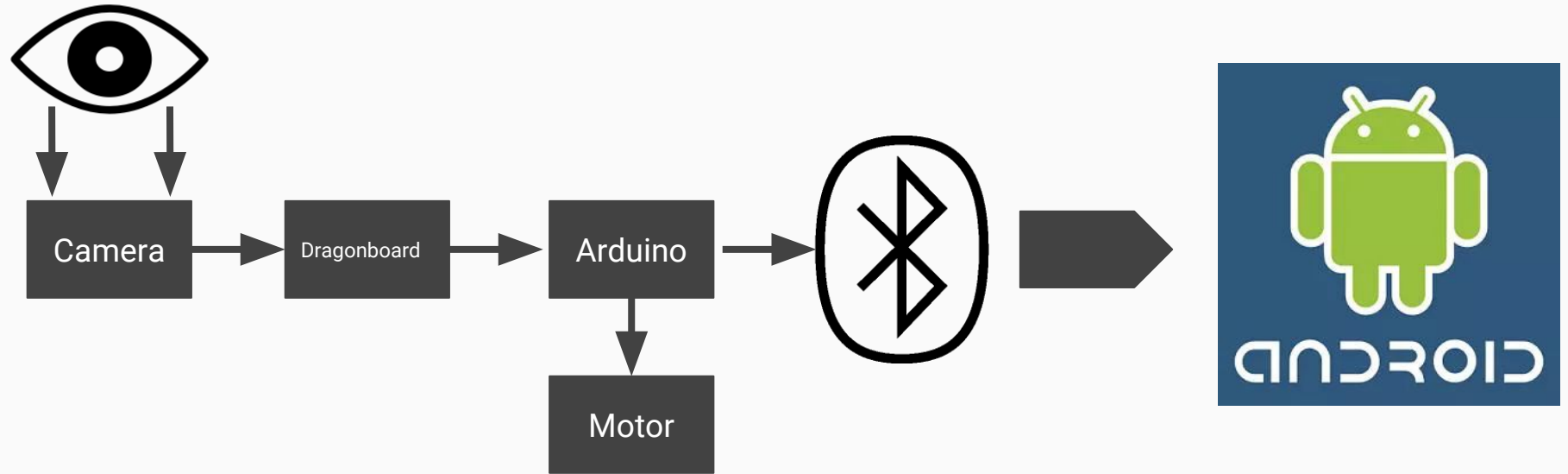
Purpose

- In 2015, 5000 people died by falling asleep while driving
- Annual cost of drowsy driving is estimated to be around $109 billion
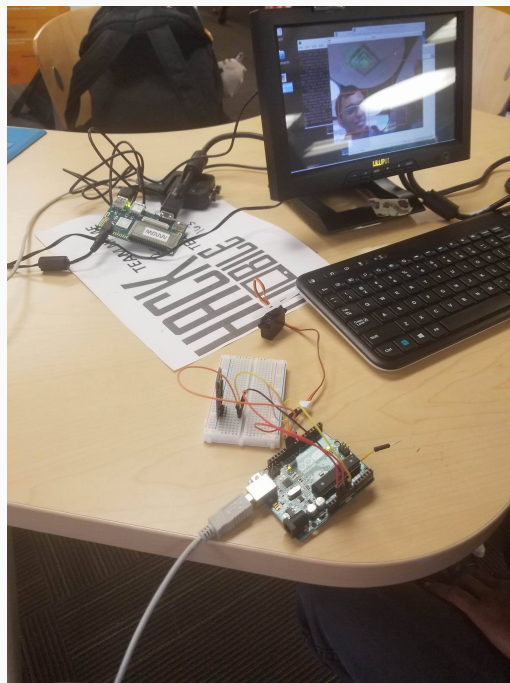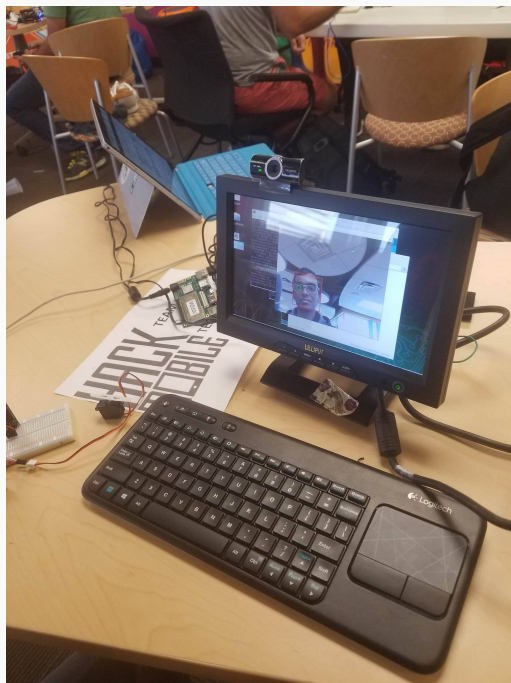- People tend to doze off while studying on their computer

Solution

- Develop a lightweight program to ensure user does not doze off
- Easy to set up on any Android device
- Can be set up in a car environment or with any computer with a camera

Component Breakdown

Project Demonstration

Don't fall asleep!

BUZZ AND RING

START DRIVING

Challenges

- Set up took large part of our time
  - Not able to use Seeed Sensor Kit
  - Replaced first Dragonboard after 4 hours of tinkering
- Integrating Components
  - Using Camera with Dragonboard
  - Using Adruino with Dragonboard
  - Using Adruino with Bluetooth
  - Using Bluetooth with Android