

## Team 3

# MAGIC SMIKE

Magic Smike is a multi-functional smart bike. It records data such as speed and location, and allows the rider to review their trip. It also features automatic night headlights, for safer and easier traveling.



### Micro SD Card Reader

An on-board Micro SD Card stores the data recorded. The rider can simply pop it out and plug it into their computer to upload their trip to the cloud.



### Flora V3

Centralized Flora V3 allows the Magic Smike to process and record the rider's bike trips.



### Pressure Sensor

Detects when someone is sitting on the bike, so that the headlights are only on when in use.



### Light Sensor

A light sensor determines when it is dark out, turning the headlights on.

### Wheel Encoder

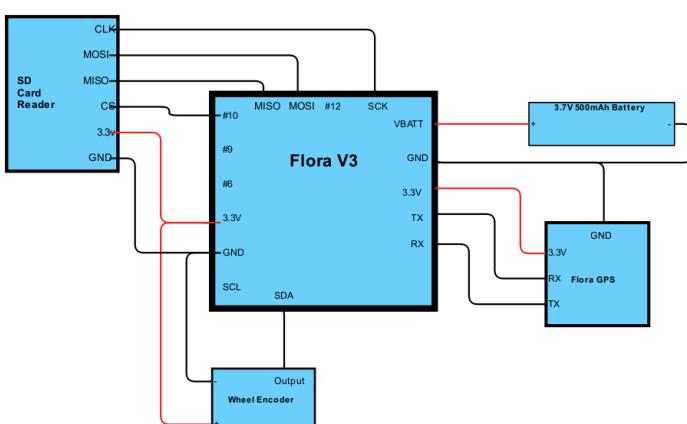
A proximity sensor records the number of revolution per second that the wheel makes, and converts the data into speed.



### Flora GPS

Tracks the rider's path using GPS data.

### Wiring Diagram:



### Webpage

The data is then shown online. To see, go to:

<https://bit.ly/2RPSqaw>

