Project Specifications

A speedometer device which senses wheel rotations of a bicycle or skateboard and displays the vehicle’s speed on a screen.

## MUST

* Take input from sensor.
* Convert analog voltage to digital data.
* Convert wheel rotations into speed displayed as mph or kmh.
* Display speed in clearly visible way.
* Operate at low-voltages.

## SHOULD

* Receive user input allowing wheel diameter to be parameterized.
* Packaged in small, weather-resistant case suitable for mounting on a bike or skateboard.
* Display in various units (kmh, m/s, rpm, etc), selectable at run-time.

## BONUS

* Phone connectivity/interfacing eg through Bluetooth or similar
* Charging capability, perhaps using solar.
* Resettable distance/trip monitor