Prototype 2 Testing Plan

Team 34: PUCKfish

**Required Materials**

* PUCKfish prototype boards: Accelerometer, light sensor, temperature sensor, orientation sensor, and radio transmitter
* PUCKfish body prototype: molds and skeleton
* Laptop
* Cables

**Setup**

* Connect prototype board to laptop wirelessly and confirm adequate battery charge on both devices
* Confirm the sensors respond to stimulation as expected
* Assess the success of epoxy casting in the ABS mold

**Testing Procedure**

* Run code to collect data from the IMU
* Move the device, confirm that the accelerometer is accurately reporting data
* Cover and uncover the light sensor, confirm that the accelerometer is accurately reporting data
* Put a hand on the sensor, confirm that the temperature sensor is accurately reporting data
* Change the orientation of the sensor, confirm that the orientation sensor is accurately reporting data
* Confirm the radio transmitter is receiving data
* Assess the level of epoxy absorption into the ABS mold

**Measurable Criteria**

* Prototype connects to laptop
* Prototype precisely reports acceleration data
* Prototype precisely reports light data
* Prototype precisely reports temperature data
* Prototype precisely reports orientation data
* Radio Transmitter accurately receives data
* Epoxy successfully cures in mold