

# 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