

1. E - Band Device

1.1. Deliverables - 1 week

- 1.1.1. Project Title Delivery Form
- 1.1.2. Project Description/Abstract
- 1.1.3. Test Plan
- 1.1.4. WBS Delivery

1.2. Interfacing - 2 weeks

- 1.2.1. Communication Protocol and Connections
 - 1.2.1.1. SPI & i2C
 - 1.2.1.2. Connect All Sensors

1.3. Integrating - 2 weeks

- 1.3.1. 3-D Print Storage Components & Attachments
 - 1.3.1.1. Choose the right material to release heat away from the user.
- 1.3.2. Manufacturing PCB
 - 1.3.2.1. Soldering Sensors, GPS receiver, ADCs, etc.
 - 1.3.2.2. Connect PCB to Raspberry Pi

1.4. Testing - 4 weeks

- 1.4.1. Determine the best armband
- 1.4.2. Targeted Trials
 - 1.4.2.1. Force Responses from individual sensors
- 1.4.3. User Trials
 - 1.4.3.1. Device in Daily Activity

1.5. In-Progress Presentation - 1 week

- 1.5.1. Create Powerpoint
- 1.5.2. In-progress Report

1.6. Final Adjustments - 2 weeks

- 1.6.1. Suitability for Both Indoor and Outdoor Activity
 - 1.6.1.1. Water and sweat resistance, Impact Resistant Design
- 1.6.2. Quality of Life
 - 1.6.2.1. Specific Emergency Contacts
 - 1.6.2.2. Active Alert Time frame
 - 1.6.2.3. Threshold values

1.7. Final Presentation - 1 week

- 1.7.1. Powerpoint
- 1.7.2. Poster
- 1.7.3. Final Report