In-Person Client Meeting 22/03

Prototype Bodycam

* Detection of unsafe behavior
* Existing API

Proposal

* Project Scope

Project Review

* Prototype Building

Research

* “What are we going to detect?”
  + Hardhats/HighVis/PPE/Glasses/Masks
  + Detects Location
    - Bluetooth
    - Wifi
    - GPS
  + Unhealthy Work Practice/Behavior
    - Look into Position Detection Models/Libraries
    - Body Position
      * Lifting
      * Running
      * Jumping
      * Unconscious??
* Hardware Requirement
  + Camera Resolution
    - Lense
  + Not Necessarily Live Detection - Recording for training
    - Onboard or post processing
  + First Person POV
    - Low Resolution
  + 8 Hours at least Battery Life
    - Wifi/Bluetooth/GPS
    - Camera
    - Processor
  + Look into camera Chips used by various suppliers
  + Size/Weight Restraints
  + Minimum Performance Models
    - Jetson/RasberryPi/etc
    - Object Detector
    - Position Estimation
* Architecture/Design
  + Proof of Concept
  + Language
  + Libraries

Architecture Requirements

* Send Messages through internet
  + Live / Post / Both
* Detect things (Object Detection)
* Framerate
* Programming Language
  + Develop App
    - Devices
    - Product Design
    - Graphic Design
    - UX Design
* Hardware Restraints
* Open Source Repos
* Battery Monitoring
* Look into online repos

Build

* AGILE
* Sprints
* Azure Devops
* GIT Repos
* Kanban/Trello Boards
  + Prioritization
  + Break Down Work into User Stories
    - Workload
    - Estimated Time Of Completion
    - Description
    - Team Member(s) Assigned to User Story
    - Exceptions/Criteria
  + Set Sprint Goals

Test