Completing Project Plan

Meeting Minutes

## 3rd February, 14:00pm

## MVB

**Attendees:** Steven, Sam, Haoran, Jennie, Robert

**Apologies:** Henna

**Meeting Chair:** Sam

**Notetaker:** Jennie

|  |  |  |  |
| --- | --- | --- | --- |
| **Agenda Item** | **Detail** | **Resulting Action** | **Action Owner** |
| 1. <Introduction> | * First suggestion to Robert of using image processing machine learning model * Discussion of the pros and cons of this followed | Research different models to gauge feasibility | All |
| 1. Sonoff dongles in place of XBees | * Discussed our decision to use Sonoff dongles for the ZigBee communication between the Arduino and the Raspberry Pi. * Approved by Robert- we explained that this adds nor removes complexity, but is a more up-to-date version of the same technology | Purchase the dongles | Steven/Haoran |
| 1. Discussed different image processing techniques | * Robert warned us of the complexity of having a security system using image processing- an 100-person PHD study was completed over six years to complete the same thing- too ambitious. | Research techniques | Henna/Jennie |
| 1. <Additional Items for Discussion> | * Robert suggested a fixed camera and location for person to stand- can read face and determine who it is. * Use a set of people (us 5) to train it on, can classify which of us has been detected using CNN. | ^^ | ^^ |
| 1. <Additional Items for Discussion> | * Another technique (much more complex) is anomaly detection, say if someone present is not one of the five of us- useful for security. | ^^ | ^^ |
| 1. AOB |  |  |  |
| 1. Next Meeting | * 10/02/2025 1pm * MVB * Meeting Chair: Jennie * Notetaker: Steven |  |  |

All actions are recorded here: <insert link to Action Tracker>

All decisions and/or meeting minutes are stored here: <insert link to Action Tracker>