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| Project ICARUS | |  | | --- | | November 21, 2016 | | 16:00 | | w1.72 | |

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| Meeting called by: Ben Peall |  | Type of meeting: General |  |
| Facilitator: Luke Cattle |  | Note taker: Ben Peall |  |
| Timekeeper: Calum Newman |  |  |  |

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| Attendees: Ben Peall, |  | |
| Luke Cattle, Calum Newman | , | |
| Chis Gunn Josh Crawford |  | |
| Jonny Balakumar |  | |
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## Minutes

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| Agenda item: 1 Raspberry pi err |  | Presenter: Luke Cattle |  |

#### Discussion:

It has been investigated in to why the raspberry pi could not connect to the network during the gateway meeting

Not concrete solution could be found, but a way to mitigate this problem is to hard reset the pi before connecting to the network

#### Conclusions:

Before the raspberry pi is to be used everyone needs to make sure it has been hard reset

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| Action items | Person responsible | Deadline |
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| Agenda item: 2 |  | Presenter: Calum Newman |  |

#### Discussion:

As discussed in the gateway meeting photoresistors could be used instead of photodiodes for the laser system, both technologies have their merits and could be viable solutions for the tracking system

#### Conclusions:

Two small arrays should be built one of photodiodes and the other made of photoresistors and both systems tested to see which would be best to use

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| Action items | Person responsible | Deadline |
| * Build 2 arrays one with photodiodes the other with photoresistors | Calum Newman | 28/11/16 |
| * Test the 2 technologies to help decide which is best | Jonny Balakumar | 10/10/16 |
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| Agenda item: 3 |  | Presenter: Ben Peall |  |

#### Discussion:

Now that simple arm control has been done, a method to find the black box needs to be developed which will allow the arm to be automated once the black box has been located

#### Conclusions:

The raspberry pi can be used with the tri track to find the black box using image processing and ultrasonic sensors this will allow a factor of autonomy to be built into the system

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| Action items | Person responsible | Deadline |
| * Find a step by step solution to locate the black box and retrieve it | Ben Peall | 28/11/16 |
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| Agenda item: 4 |  | Presenter: Josh Crawford |  |

#### Discussion:

It was discussed that using the 1st gateway slot was preferred by the group

#### Conclusions:

It was decided that when gateway meetings are book if possible the 1st one should be booked

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| Action items | Person responsible | Deadline |
| * Book the first slot for the next gate way meeting | Luke Cattle | When booking opens |
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| Agenda item: 5 |  | Presenter: |  |

#### Discussion:

During the gate way meeting it was discussed that gimbles could be used to control the laser in the system.

#### Conclusions:

It was decided that is was worth looking into the gimble technology more to see if it could work in this situation.

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| Action items | Person responsible | Deadline |
| * Investigate the feasibility of the use of gimbles | Calum Newman | 28/11/16 |
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