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| Project ICARUS | |  | | --- | | [Click to select a date] | | [Time] | | [Location] | |

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| Meeting called by: | All | Type of meeting: | Gateway Meeting 3 |
| Facilitator: | All | Note taker: | Jonathan Balakumar |
| Timekeeper: | Luke Cattle |  |  |

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| Attendees: | Jonathan Balakumar, Ben Peall, Luke Cattle, Callum Newman, Josh Crawford, Chris Gunn |
| Please read: | N/A |
| Please bring: | Demonstration equipment |

## Minutes

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| Agenda item: | Capabilities | Presenter: | Josh Crawford |

#### Discussion:

Discussing progress of capabilities

1. How are acoustics used to localize the black box?
2. Any manual controls being implemented?
3. Why was IMU not on the arm?
4. How will JASPER work?
5. How does the gimbal work?

#### Conclusions:

1. Using two microphones and cross correlating the voltages
2. They have been planned but they need to be implemented
3. Due to interference, we didn’t get correct results therefore mounted on the frame
4. Currently JASPER works as a manual control with different levels of autonomy but will be used to execute autonomous instructions
5. Due to our purchase order, not being received we were not able to implement the movement, but it would be reading from the map and directing the laser to navigate the tri-track.

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| Action items | Person responsible | Deadline |
| * Implement all necessary actions to complete system | all | VIVA Day |

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| Agenda item: | Robot Location | Presenter: | Callum Newman |

#### Discussion:

How do the robots know where they are on the map?

#### Conclusions:

Currently the IMUs will know their locations relative to map

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| Action items | Person responsible | Deadline |
| * Implement the location so that it isn’t relative | Callum Newman | VIVA Day |

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| Agenda item: | LED Beacon Detection | Presenter: | Callum Newman |

#### Discussion:

How is the LED beacon detection coming along?

#### Conclusions:

A copy of the beacon has been created, but due to brightness colour detection is difficult.

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| Action items | Person responsible | Deadline |
| * Use of contours as well as colour to detect the LEDs | Callum Newman | VIVA Day |
| * Expand the operational limits to detect more | Callum Newman | VIVA Day |
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| Agenda item: | Control Valve | Presenter: | Ben Peall |

#### Discussion:

How is the control valve manipulation coming along?

#### Conclusions:

The control panel screen is currently being read but not accurately enough

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| Action items | Person responsible | Deadline |
| * Read the screen properly | Ben Peall | VIVA Day |
| * Manipulate the valve and match it to the screen and LED | Ben Peall | VIVA Day |
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