**Team Members**

Azamat Truscott

Riley Grant

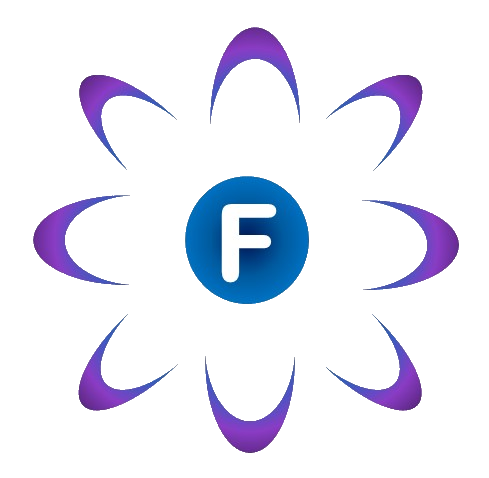
Mike Thomas

Matt Gurney

Matthew Dick

Daniel Poulson

**Meeting Minutes**



**Fusion**

1. Document Purpose

This document details the meeting minutes of (Team) Fusion’s weekly meetings.

This meeting was held in the in the following location at the following time:

|  |  |
| --- | --- |
| **Location** | **Time** |
| Microsoft Teams [ONLINE] | Every Thursday at 13:30 – 14:00 |

The meeting consisted of the following attendees:

|  |
| --- |
| **Attendees** |
| Azamat Truscott |
| Riley Grant |
| Mike Thomas |
| Matt Gurney |
| Matthew Dick |
| Daniel Poulson |

The meeting consisted of the following apologies:

|  |
| --- |
| **Apologies** |
| None |

1. Meeting Minutes

All meeting actions from the previous meeting were achieved.

The team have raised an initial Purchase Order Requisition Form (PORF), and have obtained orders from the following suppliers:

* RS
* Onecall
* Rapid

It is worth to note, since the previous meeting, the PORF’s have been finalised with the following components:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Supplier | Part Number | Description | Qty | Unit Price | Status |
| Rapid | TGS 822 | Figaro TGS 822 Organic Solvent Vapors Sensor | 2 | £12.91 | Delivered |
| 1980 | Adafruit 1980 TSL2591 High Dynamic Range Digital Light Sensor [URL: https://www.rapidonline.com/adafruit-1980-tsl2591-high-dynamic-range-digital-light-sensor-73-5410] | 2 | £6.82 | Delivered |
| RS | 102-9147 | Breadboard Prototyping Board 80 x 60 x 10mm [URL: https://uk.rs-online.com/web/p/breadboards/1029147/ | 2 | £7.92 | Delivered |
| SPP-200 | SPP-200, 200mm Insulated Tinned Copper Breadboard Jumper Wire in Black [URL: https://uk.rs-online.com/web/p/breadboard-jumper-wire/5053396/] | 3 | £0.46 | Delivered |
| L-53HD | 2.25 V Red LED 5mm Through Hole, Kingbright L-53HD [URL: https://uk.rs-online.com/web/p/leds/2285988/ | 1 | £0.40 | Delivered |
| [101020023] | Seeed Studio 101020023, Sound Sensor for Grove System [URL: https://uk.rs-online.com/web/p/sensor-development-tools/1743255/] | 2 | £3.79 | Delivered |
| {101020012} | Seeed Studio 101020012, Dust Sensor for PPD42NS for Air Purifier System, Grove System | 2 | £8.90 | Delivered |
| MIKROE-2767 | MikroElektronika Ozone 2 Click Development Board MIKROE-2767 | 1 | £27.67 | Delivered |
| Onecall | EKMC1603111 | PIR Sensor, PaPIRS, Digital, White, 12 m, 3 VDC, 6 VDC, 102 °, EKMC Series [URL:https://onecall.farnell.com/panasonic-electric-works/ekmc1603111/sensor-motion-12m-white/dp/2095731] | 2 | £10.38 | Delivered |
| MICS\_2714 | Gas Detection Sensor, Hydrogen, Nitrogen Dioxide, 1000 ppm | 2 | £10.54 | Delivered |

Throughout this meeting, the team consolidated sensor and purchased kit allocations.

It was decided that the following team-members are to work on/ commence testing on the following components once the full procurement arrives:

Riley Grant – to commence work on the Traffic Noise element of the FSN. Grant is to experiment with the noise-sensing capabilities of the ‘NI MyRio’ and demonstrate the capabilities of the “Seeed Studio Sound Sensor for Grove System”.

Mike Thomas and Azamat Truscott – commence work on the procured “Panasonic IR (Infra-Red) Motion Sensor” and demonstrate its functionality alongside the Raspberry Pi 3 Microcontroller. This would enable current testing on the “Footfall” element of the FSN System.

Daniel Poulson and Azamat Truscott – commence work on the procured “Adafruit High Dynamic Range Digital Light Sensor (Part No.: TSL2591)”. Poulson is to demonstrate the capabilities of the Digital Light Sensor using the Raspberry Pi 3 Microcontroller, whilst Truscott is to demonstrate its capabilities with the NI MyRio. This tasking would contribute towards the testing of the “Light Pollution” element of the FSN.

Matt Gurney and Matthew Dick – commence work on the “Air Quality” element of the FSN System. Dick and Gurney are to work together on demonstrating the capabilities of the Arduino Uno with the following sensors:

* Gas detection Sensor (Hydrogen and Nitrogen Dioxide)
* Dust Sensor for PPD42NS for Air Purifier System
* MikroElektronika Ozone 2 Click Development Board MIKROE-2767

The above taskings are simplified in the list of Actions under Section 3.

1. Meeting Actions

The meeting ended with the following list of Actions:

|  |  |  |  |
| --- | --- | --- | --- |
| **Actions** | **FSN System Element** | **Owners** | **Deadline** |
| Demonstrate capabilities of the “Seeed Studio Sound Sensor” with the “NI MyRio”. | Traffic Noise | Riley Grant | 26th November 2020 |
| Ensure local server is set-up. | Central Data Hub | 19th November 2020 |
| Demonstrate capabilities of “Panasonic IR Motion Sensor” with the Raspberry Pi 3 Microcontroller. | Footfall | Mike Thomas | 26th November 2020 |
| Demonstrate capabilities of “Panasonic IR Motion Sensor” with the “NI MyRio” Microcontroller. | Azamat Truscott |
| Research the incorporation of camera functionalities for the “Footfall” element of the FSN System.  Run experiments with the Raspberry Pi Camera Module. | Mike Thomas/ Azamat Truscott |
| Demonstrate capabilities of “Adafruit High Dynamic Range Digital Light Sensor” with the Raspberry Pi 3 Microcontroller. | Light Pollution | Daniel Poulson |
| Demonstrate capabilities of “Adafruit High Dynamic Range Digital Light Sensor” with the “Ni MyRio” Microcontroller. | Azamat Truscott |
| Demonstrate capabilities of the listed Air Quality Sensors (as stated in Section 2) with the Arduino Uno Microcontroller. | Air Quality | Matt Gurney, Matthew Dick |

***End of Document***