G.U.A.R.D.

Iteration Plan

# 1. Key milestones

|  |  |
| --- | --- |
| **Milestone** | **Date** |
| Iteration start | 27.2.2017 |
| Working Bluetooth | 10.3.2017 |
| Sensor | 10.3.2017 |
| Hardware | 10.3.2017 |
| Iteration stop | 13.3.2017 |

# 2. High-level objectives

* Sending coordinates between a mobile phone and SmartCar
* Controller functionality over all Android Devices
* Video streaming

# 3. Work Item assignments

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name or key words of description** | **Priority** | **State** | **Reference material** | **Target iteration** | **Assigned to** | **Hours worked (Estimate)** | **Estimate of hours remaining** |
| WiFi Direct Connection | Medium | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 2 | Justinas Stribys | 15 | 0 |
| Parking sensors | Medium | 75% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 2 | Axel Granli | 15 | 5 |
| Bluetooth connection | High | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 1 | Joacim Eberlen | 10 | 0 |
| Analog controller (refactor) | High | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 1 | Joacim Eberlen | 5 | 0 |
| Hardware schema | Medium | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 2 | Erik Laurin | 20 | 0 |
| Maps | Medium | 75% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 3 | Gabriel Bulai | 30 | 10 |
| Degree turning calculation | Medium | 60% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 2 | Boyan Dai | 15 | 10 |
| Battery display | Low | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 2 | Erik Laurin | 20 | 0 |
| Video Stream | High | N/A | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 3 | Shaun McMurray | 20 | N/A |

# 4. Issues

|  |  |  |
| --- | --- | --- |
| **Issue** | **Status** | **Notes** |
| Lacking in communication | Addressed | Miscommunications resulted in differing understandings of the definition of done for tasks |
| Time constraints | Addressed | Not much time could have been allocated to the project due to other courses |
| Hardware | Addressed | Did not have access to all the hardware that was required |

# 5. Evaluation criteria

## Performance of Arduino

## Controller consistency over all android devices

## All sensors are preforming to the same standard

## Values are transmitted over Bluetooth

## A favorable response provided by the product owners

# 6. Assessment

|  |  |
| --- | --- |
| Assessment target | Sprint 2 |
| Assessment date | 13.03.2017 |
| Participants | Emil Alegroth, Chiara Lucatello, Mayra Soliz, Axel Granli, Boyan Dai, Erik Laurin, Gabriel Bulai, Joacim Eberlen, Justinas Stirbys, Shaun McMurray |
| Project status | Late |

## Assessment against objectives

Maps, Video Stream, and Sensor were not completed during this iteration.

## Work Items: Planned compared to actually completed

Video stream was not finished, which was a milestone for this sprint.

## Assessment against Evaluation Criteria Test results

The SmartCar’s Arduino board preformed below standards due to the software architecture. Bluetooth was

revised due to lack of functionality. The video stream had a large delay and was assigned to be revisited.