G.U.A.R.D.

Iteration Plan

# 1. Key milestones

|  |  |
| --- | --- |
| **Milestone** | **Date** |
| Iteration start | 10.04.2017 |
| setting up database and server | 22.04.2017 |
| GPS testing | 23.04.2017 |
| redo sensor user interface | 18.04.2017 |
| LIDAR implementation | 18.04.2017 |
| Iteration stop | 24.04.2017 |

# 2. High-level objectives

* Present a technical demonstration during sprint review.
* Re-design the parking sensors user interface.
* Research SLAM for object avoidance.
* Research OpenCV.

# 3. Work Item assignments

Please see the Work Items List for Work Items to be addressed in this iteration.

or

The following Work Items will be addressed in this iteration:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name or key words of description** | **Priority** | **State** | **Reference material** | **Target iteration** | **Assigned to (name)** | **Hours worked** | **Estimate of hours remaining** |
| Refactor toolBars to fragments | High | 100 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Justinas | 5 | 0 |
| Refactor ControllerActivity to reduce complexity | Medium | 100 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Joacim | 10 | 0 |
| Work with MySQL database | High | 100 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Justinas | 15 | 0 |
| Rotate car to specific angle | High | 100 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Joacim | 5 | 0 |
| Make parking sensor more user friendly | High | 90 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Joacim and Boyan | 15 | 7 |
| Write scripts sending commands to SmartCar to follow phone | High | 55 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Erik | 23 | 5 |
| Algorithm that calculates the angle for turning (RBPi) | High | 70 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Shaun | 17 | 5 |
| Send gps coordinates from the Pi to the phone | High | 70 % | [Trello Board](https://trello.com/b/kTysio4W/sprint-5) | Sprint 5 | Gabriel | 15 | 4 |

# 4. Issues

|  |  |  |
| --- | --- | --- |
| **Issue** | **Status** | **Notes** |
| The data type of coordinates sending from Pi to SmartPhone | Solved | Define the standard data type and form for coordinates |

# 5. Evaluation criteria

## Code refactored and approved by the team

## Specific test cases for angle turning are matched and eliminate error in 10 degrees.

# 6. Assessment

|  |  |
| --- | --- |
| Assessment target | Sprint 5 |
| Assessment date | Iteration stop |
| Participants | Emil Alegroth, Chiara Lucatello, Mayra Soliz, Boyan Dai, Erik Laurin, Babriel Bulai, Joacim Eberlen, Justinas Stirbys, Shaun McMurray |
| Project status | On Track |

## Assessment against objectives

The objectives were addressed

## Work Items: Planned compared to actually completed

All work items were addressed. The remaining tasks will be brought to the next sprint and be prioritized at first.

## Assessment against Evaluation Criteria Test results

Database was set up and reviewed by all members. Code review was done by all members. No further test cases and code evaluation for the functions in this sprint.

## Other concerns and deviations

The feedback from customer during sprint review was about focus more on integrate existing functions than develop more functions. The suggestion will be brought to the next Sprint during the first meeting when planning for tasks in sprint 6.