*ecse 211 design project*

Software Document

Version *1.02*

*22/03/2018*

*ECSE 211 TEAM 11*

VERSION HISTORY

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| --- | --- | --- | --- | --- |
| **Title** | Software Document | | | |
| **Description** | Keeps track of all software related implementation | | | |
| **Created By** | Patrick Ghazal, Software Team Leader | | | |
| **Date Created** | 2st March 2018 | | | |
| **Version Number** | **Modified By** | **Modifications Made** | **Date Modified** | **Status** |
| 1.00 | Patrick Ghazal | Created the Document. | 2st March | Formatting required |
| 1.01 | Luka Jurisic | Peer reviewed the document. Formatted the Document | 3rd March | Preliminary Week 2 submission Content complete |
| 1.02 | Volen Mihaylov  Patrick Ghazal | Added/Updated Sections 2-5 | 22nd March | Week 4 report complete |

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# 2 API

The Application Programmer Interface has been done through JavaDoc on Eclipse and generated through it as well. The needed HTML files are included with the weekly reports as demanded. The API is updated as the code changes.

# A close up of text on a white background Description generated with very high confidence3 FLOWCHART

# A close up of text on a white background Description generated with high confidence 4 CLASS Diagram

# 5 software progress report

At the time of writing this report, the progress made on the software for this lab is the following. Milestones 00 through 02 were completed (in order: Shell complete, Gear system functional, Navigation functional) (refer to figure below). The robot’s Navigation has been deemed acceptable after testing. One of our main goals was to implement the Robot class for standing constants and centralization of data, this was also completed. The entirety of movement-related methods (forward(), convertDistance(), etc.) were moved to the Navigation class. The Display class was removed to allow the Robot to use more resources on the other threads.

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| Excerpt from README.MD |

15 Most Recent Git Commits:

|  |  |
| --- | --- |
| 02.00.01 - All classes- Added JavaDoc documentation | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 16:48:28 2018 -0400 |
| 02.00.00- Navigation, Controller- Finished Navigation pretty flawless but a bit slow | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 16:18:10 2018 -0400 |
| 01.01.00 -Navigation, Controller- Navigation turning and going forward is fl awless to a mm/degree | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 16:01:22 2018 -0400 |
| 01.00.08-Controller + all classes-Changed Controller for testing again and a dded more variables to Robot and added moveBy function to navigation | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 15:56:25 2018 -0400 |
| 01.00.08-Controller + all classes-Changed Controller for testing again and a dded more variables to Rrobot and added moveBy function to navigation | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 15:22:24 2018 -0400 |
| 01.00.07-Controller-Changed Controller for testing again | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 14:51:17 2018 -0400 |
| 01.00.06-Controller-Changed Controller for testing | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 14:28:10 2018 -0400 |
| 01.00.05-All files except Rob,Nav-Fixed motor calls | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 14:09:01 2018 -0400 |
| 01.00.04-Robot,Nav-Moved all motor calls from Robot to Nav | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Thu Mar 22 14:04:56 2018 -0400 |
| 01.00.03-Several Files-Removed unused imports, updated some javadoc, etc | Author: PatrickGhazal <patrick.ghazal@mail.mcgill.ca>  Date: Thu Mar 22 13:28:17 2018 -0400 |
| 01.00.02-Cont, LLoc, Nav, Odo, Robot, USLoc-Moved all wheel behaviour and va riables to Robot class  Deleted motor instances in all classes, moved them to Robot, updated other c lasses with method calls that matched the new Robot class | Merge: 2cc3ad2 d041d29  Author: PatrickGhazal <patrick.ghazal@mail.mcgill.ca>  Date: Thu Mar 22 10:50:12 2018 -0400 |
| 01.00.01-USLoc, LightLoc, Robot-Moved some constants to Robot class | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Wed Mar 21 19:28:28 2018 -0400 |
| 01.00.00-Nav,Cont,Robot-Added gear system functions in Nav, changed robot co nstants | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Wed Mar 21 19:21:53 2018 -0400 |
| 00.00.00--Made initial shell | Author: Volen Mihaylov <volen.mihaylov@yahoo.com>  Date: Wed Mar 21 12:28:21 2018 -0400 |
| Initial commit | Author: bryanjay28 <35203044+bryanjay28@users.noreply.github.com>  Date: Mon Mar 12 11:39:02 2018 -0400 |