Sprint 3 Retrospective Document

Date: 19.12.2018

Project acronym: ROBOCON-RT

Members: Yeşim Cemek, Gökhan Saygın, Çağrı Eser, Egemen Berk Galatalı

Supervisor: Uluç Saranlı

# Sprint 3 summary

|  |  |  |  |
| --- | --- | --- | --- |
| Item ID (from the previous retrospective doc) | Workpackage ID (from the Kick-off doc) | Status | Group’s comments |
| 1 | 1 | In progress | The base of the 2-wheeled mobile robot has been already built. We got and placed the necessary motors and completed the circuitry on them. |
| 2 | 2 | In progress | Our target single board computer (the UP2) passed from customs. However, for the first demo, we will stick with our ConnectCore 6UL single board computer and finish setting up the EtherCAT master library for it. |
| 3 | 3 | In progress | We started to examine RHexLib through examples and tutorials, wrote our own hardware and module examples using RHexLib’s hardware abstraction layer. |
| 4 | 4 | Was not on the initial plan | We became familiar with the EtherCAT Master library. We are now reading and writing data to motor drive by PDO and SDO messages using EtherCAT protocol. More abstract things about our interface design may be discussed. |

# 

# Sprint 4 plan

|  |  |  |  |
| --- | --- | --- | --- |
| Item ID | Workpackage ID (from the Kick-off doc) | Description | Status |
| 1 | 1 | Improvements on the platform: determine the motor type, add sensors and other peripherals | Leftover from Sprint 3 |
| 2 | 2 | Finishing up real-time and etherCAT related Yocto setup for testing. | Leftover from Sprint 3 |
| 3 | 3 | Porting of RHexLib: test the RHexLib with our models that we will create | Leftover from Sprint 3 |
| 4 | 4 | EtherCAT Master library: motor control experiments | Leftover from Sprint 3 |

# 

# Overall progress

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 |
| MF1 | 0% | 5% | 15% |  |  |
| MF2 | 0% | 60% | 90% |  |  |
| MF3 | 66.67% | 73% | 84% |  |  |
| MF4 | 0% | 10% | 10% |  |  |
| MF5 | 16.6% | 45% | 76% |  |  |
| MF6 | 0% | 10% | 10% |  |  |
| MF7 | 0% | 0% | 0% |  |  |
| MF8 | 0% | 0% | 0% |  |  |
| MF9 | 13% | 14% | 15% |  |  |
| MF10 | 0% | 0% | 0% |  |  |
| MF11 | 100% | 100% | 100% |  |  |
| MF12 | 37% | 40% | 40% |  |  |