Sprint 8 Retrospective Document

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Project acronym: ROBOCON-RT

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

Supervisor: Uluç Saranlı

# Sprint 8 summary

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| --- | --- | --- | --- |
| Item ID (from the previous retrospective doc) | Workpackage ID (from the Kick-off doc) | Status | Group’s comments |
| 11 | 4 | Completed | We established consistent robust real-time communication with the new motors. |
| 17 | 6 | Completed | We managed to run simulations with a 4 wheeled model and a 2 wheeled model. |
| 13 | 6 | Completed | We established communication with the simulation with Python 3 code. |
| 14 | 4 | In progress | We wrote a prototype motor control interface implementation and we are testing it. |
| 18 | 6 | In progress | We will try to run C code with static libraries instead of dynamic libraries. |
| 16 | 4 | Dropped | We have decided on primarily using the PyBullet simulation library, instead of Gazebo. |
| 4 | 4 | Completed | We wrote the C code and are currently in the process of testing it. |

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# Sprint 9 plan

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| Item ID | Workpackage ID (from the Kick-off doc) | Description | Status |
| 14 | 4 | Motor Control: Implement the EtherCAT motor drive control interface | Leftover from Sprint 8 |
| 18 | 5 | Testing EtherCAT C code on ConnectCore 6 | Leftover from Sprint 8 |
| 19 | 5 | Turning the motors in real-time using EtherCAT | New |
| 20 | 5 | Using Google Protobuf in simulation communication | New |
| 21 | 5 | Creating a model for simulation | New |
| 22 | 6 | Making the integration between simulation and RHexLib | New |
| 23 | 8 | Creating basic sensors in the simulation system | New |

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# Overall progress

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 | Sprint6 | Sprint7 | Sprint8 |
| MF1 | 0% | 5% | 15% | 25% | 25% | 45% | 50% | 75% |
| MF2 | 0% | 60% | 90% | 92% | 92% | 93% | 94% | 95% |
| MF3 | 66.67% | 73% | 84% | 100% | 100% | 100% | 100% | 100% |
| MF4 | 0% | 10% | 10% | 10% | 10% | 30% | 30% | 44% |
| MF5 | 16.6% | 45% | 76% | 80% | 82% | 82% | 82% | 87% |
| MF6 | 0% | 10% | 10% | 10% | 10% | 45% | 75% | 80% |
| MF7 | 0% | 0% | 0% | 0% | 0% | 30% | 30% | 60% |
| MF8 | 0% | 0% | 0% | 0% | 0% | 0% | 40% | 45% |
| MF9 | 13% | 14% | 15% | 20% | 25% | 25% | 25% | 25% |
| MF10 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 20% |
| MF11 | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| MF12 | 37% | 40% | 40% | 40% | 40% | 40% | 40% | 40% |