Sprint 9 Retrospective Document

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Project acronym: ROBOCON-RT

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# Sprint 9 summary

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| --- | --- | --- | --- |
| Item ID (from the previous retrospective doc) | Workpackage ID (from the Kick-off doc) | Status | Group’s comments |
| 14 | 4 | In progress | We’ve improved the EtherCAT motor control implementation, but we are currently more focused on simulation. |
| 18 | 5 | Completed | We tested the EtherCAT master library’s C API from inside RHexLib modules. |
| 19 | 5 | Completed | We have turned motors in a real-time Velocity Loop using the EtherCAT Master Library. |
| 20 | 5 | In progress | We integrated to the simulation system, however it has some problems. We will fix them until the demo day. |
| 21 | 5 | In progress | We will construct a two-wheeled robot model until the demo. |
| 22 | 6 | Completed | We established a secure communication between RHexLib and the simulation. |
| 23 | 8 | In progress | We will continue adding sensors for Demo day. |

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# Sprint 10 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 9 |
| 20 | 5 | Using Google Protobuf in simulation communication | Leftover from Sprint 9 |
| 21 | 5 | Creating a model for simulation | Leftover from Sprint 9 |
| 23 | 8 | Creating basic sensors in the simulation system | Leftover from Sprint 9 |
| 24 | 6 | Design simulation scenario for Demo Day | New |
| 25 | 6 | Prepare robot platform with ConnectCore 6 for Demo Day | New |

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# Overall progress

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 | Sprint6 | Sprint7 | Sprint8 | Sprint9 |
| MF1 | 0% | 5% | 15% | 25% | 25% | 45% | 50% | 75% | 85% |
| MF2 | 0% | 60% | 90% | 92% | 92% | 93% | 94% | 95% | 95% |
| MF3 | 66.67% | 73% | 84% | 100% | 100% | 100% | 100% | 100% | 100% |
| MF4 | 0% | 10% | 10% | 10% | 10% | 30% | 30% | 44% | 70% |
| MF5 | 16.6% | 45% | 76% | 80% | 82% | 82% | 82% | 87% | 100% |
| MF6 | 0% | 10% | 10% | 10% | 10% | 45% | 75% | 80% | 90% |
| MF7 | 0% | 0% | 0% | 0% | 0% | 30% | 30% | 60% | 100% |
| MF8 | 0% | 0% | 0% | 0% | 0% | 0% | 40% | 45% | 45% |
| MF9 | 13% | 14% | 15% | 20% | 25% | 25% | 25% | 25% | 50% |
| MF10 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 20% | 50% |
| MF11 | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| MF12 | 37% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% |