Machine Design

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| Task | Responsible | Done when | Duration |
| Finishing document | Maarten |  |  |
| Defining test cases | Tudor |  |  |
| Interface part document | Wigger and Stefan |  |  |
| Adjusting document according to feedback | Rolf |  |  |
| Ensure result of phase is specification for next phase |  |  |  |
| Cross reading |  |  |  |

Software Specification

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| Task | Responsible | Done when | Duration |
| Finishing document | Rolf | 10th of March |  |
| Document inputs |  |  |  |
| Document outputs |  |  |  |
| Dependence outputs-inputs |  |  |  |
| Create inventory of abstract states |  |  |  |
| State changes depending on input |  |  |  |
| Create UPPAAL model |  |  |  |
| Defining purpose |  |  |  |
| Ensure result of phase is specification for next phase |  |  |  |
| Cross reading |  |  |  |

Software Design

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| --- | --- | --- | --- |
| Task | Responsible | Done when | Duration |
| Finishing document |  |  |  |
| Formulate ESRs |  |  |  |
| Represent I/O registers |  |  |  |
| Explain correctness |  |  |  |
| Motivation design decisions |  |  |  |
| Defining purpose |  |  |  |
| Ensure result of phase is specification for next phase |  |  |  |
| Cross reading |  |  |  |

Software Implementation & Integration

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| Task | Responsible | Done when | Duration |
| Finishing document | Stefan |  |  |
| Develop coding standards |  |  |  |
| Documentation coding standards |  |  |  |
| Documentation representation chosen |  |  |  |
| Defining purpose |  |  |  |
| Integration and testing |  |  |  |
| Finishing Assembly program |  |  |  |
| Ensure result of phase is specification for next phase |  |  |  |
| Cross reading |  |  |  |

System Validation and Testing

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| Task | Responsible | Done when | Duration |
| Finishing document |  |  |  |
| Defining purpose |  |  |  |
| Evaluate test cases |  |  |  |
| Check if SLRs are met |  |  |  |
| Cross reading |  |  |  |
| Check unintended functionality |  |  |  |
| Define how certain parts of the machine are going to be validated (code review, test cases or formal proofs) |  |  |  |
| Do the code review |  |  |  |
| Perform test cases |  |  |  |
| Make formal proofs |  |  |  |
| Define how to do the code review (walkthrough, formal peer review, pair programming) |  |  |  |
| Walkthrough |  |  |  |
| Formal peer review |  |  |  |
| Pair programming |  |  |  |
| Review report |  |  |  |
| Write final verdict on test runs |  |  |  |
| Statement coverage |  |  |  |
| Condition coverage |  |  |  |
| Decision coverage |  |  |  |
| Modified condition/decision coverage |  |  |  |
| Test case execution documentation |  |  |  |
| Documentation formal proofs |  |  |  |

Completion

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| Task | Responsible | When done | Duration |
| Finishing Final Report |  |  |  |
| Document Introduction |  |  |  |
| Document Conclusion |  |  |  |
| Documenting purpose |  |  |  |
| Document method working |  |  |  |
| Document Specification |  |  |  |
| Document Validation |  |  |  |
| Document Design of software |  |  |  |
| Motivate main design decisions |  |  |  |

Presentation and demonstration

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| Task | Responsible | When done | Duration |
| Presentation | Wigger, Rolf and Stefan |  |  |
| Demonstration |  |  |  |

Reflection

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| Task | Responsible | When done | Duration |
| Reflection |  |  |  |