Machine Design

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| Task | Responsible | Done when | Duration |
| Finishing document | Maarten |  | 1h |
| Defining test cases | Tudor |  | 4h |
| Interface part document | Wigger and Stefan |  | 4h |
| Adjusting document according to feedback | Rolf |  | 2h |
| Ensure result of phase is specification for next phase |  |  | 1h |
| Cross reading |  |  | 1.5h |

Software Specification

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| --- | --- | --- | --- |
| Task | Responsible | Done when | Duration |
| Finishing document | Rolf | 10th of March | 1h |
| Document inputs |  |  | 1.5h |
| Document outputs |  |  | 2h |
| Dependence outputs-inputs |  |  | 1h |
| Create inventory of abstract states |  |  | 1h |
| State changes depending on input |  |  | 1h |
| Create UPPAAL model |  |  | 5h |
| Defining purpose |  |  | 30m |
| Ensure result of phase is specification for next phase |  |  | 1h |
| Cross reading |  |  | 1.5h |

Software Design

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| --- | --- | --- | --- |
| Task | Responsible | Done when | Duration |
| Finishing document | Wigger |  | 1h |
| Formulate ESRs |  |  | 3h |
| Represent I/O registers |  |  | 1h |
| Explain correctness |  |  | 6h |
| Motivation design decisions |  |  | 3h |
| Defining purpose |  |  | 30m |
| Ensure result of phase is specification for next phase |  |  | 1h |
| Cross reading |  |  | 1.5h |

Software Implementation & Integration

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| --- | --- | --- | --- |
| Task | Responsible | Done when | Duration |
| Finishing document | Stefan |  | 1h |
| Develop coding standards |  |  | 4h |
| Documentation coding standards |  |  | 3h |
| Documentation data representation chosen |  |  | 2h |
| Defining purpose |  |  | 30m |
| Integration and testing |  |  | 6h |
| Finishing Assembly program |  |  | 1h |
| Ensure result of phase is specification for next phase |  |  | 1h |
| Cross reading |  |  | 1.5h |

System Validation and Testing

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| --- | --- | --- | --- |
| Task | Responsible | Done when | Duration |
| Finishing document | Tudor |  | 2h |
| Defining purpose |  |  | 30m |
| Evaluate test cases |  |  | 8h |
| Check if SLRs are met |  |  | 4h |
| Cross reading |  |  | 4h |
| Check unintended functionality |  |  | 3h |
| Define how certain parts of the machine are going to be validated (code review, test cases or formal proofs) |  |  | 3.5h |
| Do the code review |  |  | 22h |
| Perform test cases |  |  | 5h |
| Make formal proofs |  |  | 7h |
| Define how to do the code review (walkthrough, formal peer review, pair programming) |  |  | 4h |
| Walkthrough |  |  | 12h |
| Formal peer review |  |  | 8h |
| Pair programming |  |  | 12h |
| “Review report” |  |  | 10h |
| Write final verdict on test runs |  |  |  |
| Statement coverage |  |  |  |
| Condition coverage |  |  |  |
| Decision coverage |  |  |  |
| Modified condition/decision coverage |  |  |  |
| Test case execution documentation |  |  |  |
| Documentation formal proofs |  |  |  |

Completion

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Responsible | When done | Duration |
| Finishing Final Report | Dat |  |  |
| 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 |  |  |  |

• definitions of the concepts, tasks, subtasks, responsibilities, deadlines

The workplan should be readable without having to ask for explanation of the terms.

All duties should be clearly defined, process duties as well as product duties.

Definitions

Concepts: a high level idea.

Tasks: work that needs to be done.

Machine Design

Software Specification

Software Design

Software Implementation and Integration

System Validation and Testing

Final Report

Presentation

Subtasks: work that need to be completed in order to fullfill the completeness of a task.

For Machine Design:

Use-case

User constraints

Safety properties

System Level Requirements

Machine interface

Software Specification:

Software specification: as accurate as possible description of the required behaviour of the PP2.

UPPAAL

Software Design:

Software Implementation and Integration:

System Validation and Testing:

Final Report:

Introduction:

Responsibilities: the state of duty to be accountable for something.

Deadlines: the latest date at which a task should be completed and handed in.

Validation

We validate the work plan by comparing the expected time it would take to finish each task in the schedule with the time spent working on the corresponding task in the collective logbook. The logbook serves as an indication of how much time was spent on a certain task by each member of the group. Should there be a significant difference, then we will either assign the group member(s) that spent less time the week before to a task that requires relatively more time, or let the member redo the work if it turns out to be insufficient. It could also be the case that the expected time spent on a task was incorrectly estimated.

• change policy and conclusions

The approximations undoubtedly turn out to be wrong, how do we cope with that?

What happens if deadlines are in danger?

Change policy and conclusions

Suppose that some unforeseen problems arise and it’s going to be nearly impossible to meet a deadline. Unfortunately, we will all have to spend more time on a subtask then (this includes Tudor).