Project plan

Washing machine

Tycho Hertogs, Hristo fjdisaopfads, Samuel Ferero, Amir Amir, Tomas Aukstikalnis

Contents

Project plan

Project Risk

Risk	Description	Mitigation	Impact	What if Still happens
Time management	I am currently working and studying at the same time and this project requires time and attention and these two might have interferences.	Every meeting between the team and the formal clients will be arranged in advance.	High	Working over time.
Low level of productivity	This risk depends on the ability, experience and willingness of the team members to participate and perform in the project. If the members are not putting enough effort in the project process, that will reflect the deadlines and the final Project.	The best mitigation of this risk is - Check if the put efforts are enough to deliver the deliverables on time, otherwise more efforts have to be put into work.	High	Set smaller tasks and try to reach them on daily bases
Underestimating the tasks	We may not achieve to finish a specific Milestone before the deadline specified in the Project Plan.	Try to reach an agreement with the Formal Client for a delay. (at least one week before the deadline)	High	Using scrum will force group members to set tasks based on current situation. If a task wasn't delivered on time, then it should have some place in next sprint.
Users reject the prototype	There is a risk that prototypes will be rejected (require significant rework).	One of the key methods of improving user acceptance is to get regular prototypes in front of users.	Low	At the end of each sprint perform a survey to verify the satisfaction.
Project doesn't reach its goal	There are so many outside factors which may effect this project and cause us to leave this project unfinished.	Have a plan that if one of the members couldn't continue the other will be able to continue. Have description for every step that has been done so far. Comment while	High	The transition (to find a member to continue) will be simple and replacement will fit in easily.

		codding		

Current Situation

We've been assigned to program a simple laundry machine based on the existing architecture. During this project we will work under the supervision of Mr.Lambooj. The existing class diagram might change as the project goes on but it will be the foundation structure to our program.

Mosquito

Skills

Skills needed for completion of the project include:

	Skill	Period	Required Level
	C++	Whole project	High
	Project Management	Whole project	High
3.	User Experience	Prototyping/User Interface Testing	low
4.	Presentation	End of project	Medium
5.	UML	Start of the project	medium
6.	Software Testing	Testing	High

Skills we have: Experience Level:

1. C++ Programming Medium/Low
2. Project Management Medium
3. User experience Medium
4. Presentation High
5. UML High
6. Software testing skills Medium

Quality

Quality constraints

We will not do real life tests which will result in possible bugs or inefficiency in actual washing machines

There are limitations to the machine since the simulator only has a small set of functions

The arduino is a small microprocessor so optimization is key to a smooth running program

Problem prevention

A lot of documentation will be created so that everyone can ease into the project and not get blinded by the amount of work and immense lines of code

Problem solving

We will be using svn repositories so that we will be able to program progressivly and not cause complicated bugs with an unknown cause

Using more than one simulations will prevent anomalies caused by a faulty simulator

Time Table

Nr.	Deliverable	Deadline
1	Project Initiation Document	November 25, 2015
2	User Requirement Specification	December 2, 2015
3	Design documments: a. Class diagram b. State diagrams c. Sequence diagrams	December 7, 2015
4	First demo: a. Arduino is able to controll individual Laundry Machine features b. Arduino monitors all Laundry machine events c. Some of the more important unit tests	December 14, 2015
5	Finished Unit Tests	January 6, 2016
6	Final Application	January 13, 2016
7	Final documentation a. Finalize Design documments b. Finalize URS c. Write process report d. Make presentation	January 20, 2016