

OPPONENTS'S EVALUATION OF THE BACHELOR THESIS

Student: Mbuotidem Ime Archibong **Opponent:** Ing. Petr Dostálek, Ph.D.

Study program: Engineering Informatics
Study discipline: Information and Control Technologies
Academic year: 2018/2019

Bachelor Thesis Topic: The Control of a Model Washing Machine

Evaluation:

	A	B	C	D	E	F
	Evaluation: A – Best; F - Unsatisfactory					
1. Difficulty of the assigned task(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Fulfilment of all points of the assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Working with literature and citations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Level of linguistic elaboration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Formal elaboration – overall impression	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Logical structuring of the thesis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Suitability of chosen resolution methods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Practical part elaboration quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Results and their presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Thesis conclusions and their formulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contribution of the thesis and its exploitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Result of the plagiarism test:

The work was checked for plagiarism and the result is that it is original.

Overall evaluation of the thesis:

The resulting mark is not the average of all of the abovementioned evaluations. The mark is awarded by the thesis supervisor according to their deliberations and the ECTS classification scale: A – Excellent, B – Very good, C – Good, D – Satisfactory, E – Sufficient, F – Insufficient. Grade F also means “I do not recommend this thesis for defence.”

I recommend this bachelor thesis for its defence and suggest the following evaluation:

E - Sufficient.

In the case of an “F – Insufficient” grade, provide comments and the shortages of the thesis and the reasons for this assessment.

Questions for defence:

1) Model of the washing machine has only two sensors of water level indicating 50 and 100 % of water fill. How do you implement water draining function without sensor indicating empty washing tub?

Other comments, suggestions for defense of the thesis (can be continued on the next page):

Theoretical part of the work is well organized and very well describes microcontroller development kit, washing machine model and software development environment Kinetis Design Studio. In the practical part student developed simple control application that only processes one small part of the whole washing process. I think that this program should be more complex - minimally it must

process following shortened phases: filling of washing tub with water, heating to desired temperature, washing process and draining the water. On this basic program structure it is then possible to build functional extensions in tasks for students which are required by point 3 of the assignment. Instead of it student created theoretical test questions with solutions. Point 5 of the assignment is not therefore properly fulfilled. Overall formal elaboration is good with some errors in text formatting and source code pictures sizing.

Date: 31. 5. 2019

Thesis Opponent's Signature: