

I. IDENTIFICATION DATA

Thesis title:	Multi-coil Qi charger
Author's name:	Toturbiy Toturbiev
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	13115
Thesis reviewer:	Ing. Pavel Máša, Ph.D.
Reviewer's department:	13131

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
<p>The original idea of the assignment was to develop an array of coils for the transmission of energy that would contain more than three commonly used coils. However, this system would have to include an independent receiver position detection system and a processor control of the transmitters. For the bachelor student, this solution is quite demanding, and therefore, in the final bachelor thesis, the system was limited to two coils. The student had a short time to deal with the bachelor thesis. Students who solve the thesis of such extent usually work for more than a year on the thesis, while Mr. Toturbiev had just over three months to complete it. The scope of the submitted thesis thus corresponds to the short time Mr. Toturbiev had to deal with it.</p>	

Fulfilment of assignment	fulfilled with major objections
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
<p>Implementation of the transmitter and receiver electronics was not realized. As I described in the previous item, the original idea was a more complex system. However, the committee should take into account the short time the student had to solve the problem.</p>	

Activity and independence when creating final thesis	C - good.
<i>Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.</i>	
<p>The student attended consultations frequently. In the beginning, it was necessary to give the student more advice on what to do and how to solve it, but it gradually improved.</p>	

Technical level	C - good.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
<p>In some fields of the solution, the student was not familiar with the problematics, but during the work, he improves significantly.</p>	

Formal and language level, scope of thesis	D - satisfactory.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
<p>The organization of the thesis is logical, with just a few mistypes. The extension of the thesis is sufficient with regards to the notes above. Some of the topics we discussed, such as the current rating of coil wires, did not appear in the thesis. Such issues are a significant part of the coil design, which student does not describe sufficiently. On the other hand, there are a couple of images of the PCB assembly process, which are not important for the scope of the thesis.</p>	

Selection of sources, citation correctness	C - good.
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Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?

Almost all citations are online sources and some of them just a simple web pages. On the other the other hand, some recommended books, which would be more suitable for the thesis, are not in the list. Item numbering is disturbed on the end of bibliographic citations.

Additional commentary and evaluation (optional)

Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

I have no questions for the presentation.

The grade that I award for the thesis is **D - satisfactory**.

Date: **3.9.2019**

Signature: Ing. Pavel Máša, Ph.D.