

I. IDENTIFICATION DATA

Thesis name:	Use TCP/IP for embedded application
Author's name:	Trinh Gia Phuc
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Electrotechnology
Thesis reviewer:	Jan Hájek
Reviewer's department:	Department of Electric Drives and Traction

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The assignment is pretty complex with sufficient level of difficulty for a bachelor thesis. The implementation of TCP/IP stack is not easy and requires deep understanding of embedded programming.	

Satisfaction of assignment	fulfilled
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
All items of the assignment were fulfilled.	

Method of conception	outstanding
<i>Assess that student has chosen correct approach or solution methods.</i>	
Although the assignment doesn't specify concrete implementation of Lwip, Mr. Trinh chose freeRTOS as a platform. This made him to learn another library for his work. However it was good choice for his further work and I appreciate it.	

Technical level	A - excellent.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
FreeRTOS and LwIP have extensive documentation and it's quite difficult to bring it alive.	

Formal and language level, scope of thesis	C - good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Scope of thesis is sufficient, but author could pay little more attention to description of UX and behavior of web application and its functionality. Formal adjustment is confusing, it would be better to close code samples to separated blocks with different (maybe smaller) font and add them to separate code index for referencing. These blocks should stay on single page if it's possible. The reason of bold text usage isn't clear (sometimes is bold function name and sometimes whole sentence). It's better to use different forms of font (e.g. italic) for specific clear purpose or describe this usage in introduction. There are a few blurred images, and many images with wrong ratio and different scale according to the text characters.	

Selection of sources, citation correctness	D - satisfactory.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	
All sources were certainly used, but citations in the text are completely missing. The source of the presented information is therefore in most of the cases unclear. List of sources isn't indexed by numbers. Images should be referenced by direct link in list of sources.	

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

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III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

The thesis fulfilled all points of assignment. Despite missing citations and some formal lacks is obvious, that Mr. Trinh spent a lot of time by examining usage of freeRTOS and LwIp stack.

Question:

Could you explain how exactly I/O controlled and displayed are? (buttons, LEDs ...)

I evaluate handed thesis with classification grade **B - very good**.

Date: **8.6.2016**

Signature: