SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Use TCP/IP for embedded aplication**
Author's name:	**Trinh Gia Phuc**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Electrotechnology
Thesis supervisor:	Michal Brejcha
Supervisor's department:	Department of Electrotechnology

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment   **ordinarily challenging**

Evaluation of thesis difficulty of assignment.

The assignment deals with implementation of simple embedded Web Server and MCU control program for ST evaluation board with different expansion boards. The demo web page had to be also done for testing purposes.

Satisfaction of assignment   **fulfilled**

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.

All points of assignment were fulfilled.

Activity and independence when creating final thesis   **A - excellent.**

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.

Mr Trinh worked independently and periodically consulted his results. Several problems were solved only by himself. My comments were worked in his project always immediately.

Technical level   **A - excellent.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

Mr Trinh was supposed to study implementation of TCP/IP stack and HTML by himself. He mastered both topics well. Moreover he had to learn the control of STM32 Nucleo boards and using of its expansion boards. He searched the datasheets and software libraries for this purpose on his own and propose and implement the control program.

Formal and language level, scope of thesis   **B - very good.**

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

Almost half of the thesis deals with the description of TCP/IP. Minor description were paid to the Demo Webpage. There should be more explanations. Also some parts of codes should be replaced or supported by flowcharts in my opinion. For code examples should be used different font to separate it from normal text.

Selection of sources, citation correctness   **C - good.**

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.

The list of citations should be numbered and as well as all references. Somewhere were written direct references to the web pages, but these citations were not in the list. Also the referenced link sometimes did not point directly to the presented information (for example Figures 5 and 6, there is not link to the picture).

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.
Please insert your commentary (voluntary evaluation).

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

There were some complaints in my judgements above however I was very satisfied with Mr Trinh in the results. I would praise especially his independent work and his fast reaction to my comments. His solution worked well at the last check so I consider his work fulfilled in accordance with the assignment.

I evaluate handed thesis with classification grade **A - excellent.**

Date: **8.6.2016**   Signature: