THESIS SUPERVISOR'S REPORT

I. IDENTIFICATION DATA

Thesis title:	**Emulation of SWD communication.**
Author's name:	**Emin Tunahan Yazan**
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Dept. of Measurement
Thesis reviewer:	Assoc. prof. Jiří Novák, Ph.D.
Reviewer's department:	Dept. of Measurement

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment — **ordinarily challenging**

How demanding was the assigned project?

The assignment was focused on SWD communication analysis and its emulation. I believe this topic is of an average hardness for Computer Engineering student.

Fulfilment of assignment — **fulfilled**

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 am convinced that all points of the assignment were completely fulfilled.

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

Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.

Mr. Yazan was systematically working on the theses. He was consulting problems and ideas regularly, requiring very limited support from me.

Technical level — **B - very good.**

Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?

Theses result is a fully working SWD node emulation. I have just a small remark to the cable length test, conducted in chapter 4.2.3. As EIA-485 technology is used, I am convinced this test is unnecessary and cable length limits could be found either in EIA-485 standard or in other literature.

Formal level and language level, scope of thesis — **A - excellent.**

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 have no comments to the theses form and language level. The theses are written in good English, they are well structured and contain minimum of mistypes.

Selection of sources, citation correctness — **B - very good.**

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?

Theses follow the citation rules; student's work is clearly distinguished from the already published sources. I just miss the EIA-485 technology citation, as it is important for the final result.

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

Summarize your opinion on the thesis and explain your final grading.

Mr. Yazan was systematically working on his thesis topics and he has used proper design and implementation methods. Final SWD node emulation is fully working, which was proved by functional and partially parametric tests. Also the theses itself are well structured, easy to read and provide comprehensive description of his results.

With respect of some less important issues mentioned above,

The grade that I award for the thesis is **B - very good.**

Date: **28.8.2020** Signature: Jiří Novák