



Review report of a final thesis

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Thesis title: SDR Application for Cybersecurity Analysis of Wireless Communication
Branch / specialization: Computer Security and Information technology
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Evaluation criteria

1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
- [2] assignment fulfilled with minor objections
- [3] assignment fulfilled with major objections
- [4] assignment not fulfilled

The assigned tasks were successfully fulfilled, without any doubt.

2. Main written part 100/100 (A)

I consider this work as excellent as it covers many aspects of IT engineering, requiring excellent levels of understanding: programming, hardware, networking and security.

3. Non-written part, attachments 100/100 (A)

The experiments are very well described and organised; to only make a pun, "as if I was there" when they were made. Also I remarked the placement of the devices which was chosen not to be too easy to perform the attacks. Of course, at the described levels of power, if someone has a spectral analyser, they can be detected.

4. Evaluation of results, publication outputs and awards 100/100 (A)

The work is an excellent starting point for more interesting experiments, as obviously it works. Thus the work can very easily be transformed into a diploma thesis. The platform is there, the student knows how to work with it and now even more interesting results can be given.

The overall evaluation

100 /100 (A)

Excellent work, congratulations.

Questions for the defense

None. Or maybe one, what would you like to study next using this rig?

Instructions

Fulfillment of the assignment

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

Main written part

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 26/2017, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

Non-written part, attachments

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

Evaluation of results, publication outputs and awards

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

The overall evaluation

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.