

I. IDENTIFICATION DATA

Thesis title:	Car-to-Robot communication using a mobile phone
Author's name:	Lukáš Maruniak
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Measurement
Thesis reviewer:	Ing. Michal Sojka, Ph.D.
Reviewer's department:	ČVUT, CIIRC

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
I consider the assignment as challenging because at the beginning of the work it was not clear, which technologies will be used in the final solution. The student initially reviewed many technologies, which many were finally not used. However, his research served as a basis for discussion with other involved parties about which technologies to select.	

Fulfilment of assignment	fulfilled
<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>	
The goals of the thesis were fully achieved. One minor point from the assignment (communication over 4G/5G) is still to be completed – the solution was tested only via Wi-Fi and 4G would require some configuration changes in the used discovery protocol, but I consider this insignificant.	

Activity and independence when creating final thesis	A - excellent.
<i>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.</i>	
The student worked very independently and evenly throughout the whole year. In the initial, research part of the work he studied the available technologies on his own and presented his opinion about their suitability for the project. In the implementation part, it was sufficient to specify high-level goals and the student studied the needed documentation, familiarized with the development tools and developed the solution. Consultations with him were productive, he was always well prepared.	

Technical level	A - excellent.
<i>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?</i>	
The thesis is technically sound. The student had no trouble understanding all the used technologies and used them correctly. The result is working well. Before thesis submission, we perform few rounds of testing which discovered several problems and these were successfully corrected.	

Formal level and language level, scope of thesis	A - excellent.
<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>	
The thesis is written in good and understandable English and contains all needed information. Graphical side it good (LaTeX). I appreciate student's interest in following typographical rules and conventions.	

Selection of sources, citation correctness**A - excellent.**

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?

The thesis contains a huge number of references, majority of them being to on-line sources. The sources are cited correctly.

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.

Please insert your comments here.

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.

I am satisfied with the results of this work. All things were finished in time and work correctly. It is planned that the result will be presented in the autumn in cities of Milan, Ljubljana and/or Modena as a part of demonstrator of a EIT Urban Mobility project.

The grade that I award for the thesis is A - excellent.

Date: **6.6.2022**

Signature: