

I. IDENTIFICATION DATA

Thesis title:	Car assistant system for road lanes and traffic signs detection
Author's name:	Bc. Shreetal Upadhyay
Type of thesis:	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Instrumentation and Control Engineering
Thesis reviewer:	Ing. Jaroslav Bušek, Ph.D.
Reviewer's department:	CTU in Prague – FME, Department of Instrumentation and Control Engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	extraordinarily challenging
<i>How demanding was the assigned project?</i>	
The assignment of the work is very demanding in the available time horizon. To solve the given topic a complex theory needs to be studied and it is extraordinarily challenging.	

Fulfilment of assignment	fulfilled with major objections
<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>	
Individual tasks, except task four, were fulfilled separately using already realized partial projects with minimal added value and contribution to the given topic. The fourth task was not met and only separate parts were supplied instead of complete systems.	

Activity and independence when creating final thesis	D - satisfactory.
<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>	
At the beginning of the work the student was active and tried to find suitable information regarding theoretical part of the thesis. In the practical part, however, he noticeably lost enthusiasm and just a week before the deadline for submitting the thesis a project of someone else (available at github.com) was presented as his own to the supervisor.	

Technical level	E - sufficient.
<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 submitted work briefly describes the use of partial projects but does not justify their selection. The text is not consistent and it is not clear what the student's contribution to the topic is – mainly in the practical part of the thesis. It is not clear which theoretical knowledge (e.g. equations) from the first half of the thesis was applied in the practical part.	

Formal level and language level, scope of thesis	E - sufficient.
<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 formal level of work is below average and uses designations that are more suitable for DIY projects presented online. The thesis is not well-organized. The text contains a lot of typos and some parts of the text are hard to read regarding to thoughts presented.	

Selection of sources, citation correctness	E - sufficient.
<i>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?</i>	

The selection of sources is mostly limited to online ones and does not use literature that has been reviewed. Significant parts of the text are referenced to only one source and no critical or evaluative view is noticeable. The originality of some presented parts is questionable. The citation standard is not met (only URL is not satisfactory for a reference).

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.

The student changed the original topic at his own request and he was strongly warned about its high demands and the necessity of a very active approach. Nevertheless, he initially devoted himself actively to the topic. Unfortunately, this did not persist in solving the practical part. The submitted work is a non-synergistic combination of partial projects and the student's contribution to the topic is low according to the submitted text. The work shows partial functionality at least.

The grade that I award for the thesis is **E - sufficient**.

Date: **27.1.2020**

Signature: