REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Test stand design and automated sequences implementation**
Author's name:	**Maxime Wach**
Type of thesis :	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Automotive, Combustion Engine and Railway Engineering
Thesis reviewer:	Ing. Martin Biák, Ph.D.
Reviewer's department:	Department of Advanced Powertrains at TU Chemnitz, Germany

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment — **ordinarily challenging**

Evaluation of thesis difficulty of assignment.

The assignment is standard: literature survey, simulations, validation through tests.

Satisfaction of assignment — **unfulfilled**

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.

The presented thesis lacks in results. It seems as the work was cut, before it could be finished, and only a draft version was submitted. The logic and reasoning of the author is sound (although language level makes it difficult to understand), the potential for good results is there, but the thesis is not complete.

Method of conception — **correct**

Assess that student has chosen correct approach or solution methods.

The student approached the given assignment in a proper way. The otherwise correctly structured thesis lacks the matching contents.

Technical level — **E - sufficient.**

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

The author performed a satisfactory literature and market survey, but the selection of test-stand components from the market survey was not properly documented.
The simulations were performed; however, the amount and quality of the presented results is insufficient.
However, with one exception, no literature sources were given. In the text, there are in some places references to sources, but list of the sources is missing.

Formal and language level, scope of thesis — **F - failed.**

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

The quality and size of the illustrations are not optimal. The pictures and tables are referenced in text incorrectly or not at all.
The level of English is unsatisfactory. Sometimes, the reader cannot understand the reasoning at all, because verbs or even half of a sentence are missing. The language quality, many spelling mistakes, and missing parts of sentences suggest that thesis was written very quickly and was not checked.

Selection of sources, citation correctness — **F - failed.**

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.

As mentioned above, the sources are missing. Therefore, the correctness of the citation cannot be evaluated.

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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.
The student will have the opportunity to provide the missing information during the defense.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

The presented master thesis, although crudely written, has a good start. The author goes in the right direction, but (possibly) due to time constrains was unable to complete the writing of the thesis and to present all his results. In addition, the missing literature sources, albeit sometimes referenced in the text, would need to be added.
I recommend failing the student now and giving him time to complete the work.

I evaluate handed thesis with classification grade **F - failed.**

In the defense, I would like student to answer the following questions:

1. Compare the drive cycle obtained in the thesis with for example NEDC or WLTC
2. Explain the method of evaluation and weights
3. Provide an overview of the measured quantities and the corresponding sensors
4. Explain the figure at the bottom of the page 23

Date: **1.2.2019** Signature: