

## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>Parametrization and automatic generation of 3D CAD model</b>
<b>Author's name:</b>	<b>Alexandre Adrien Perié</b>
<b>Type of thesis:</b>	master
<b>Faculty/Institute:</b>	Faculty of Mechanical Engineering (FME)
<b>Department:</b>	Department of Automotive, Combustion Engine and Railway Engineering
<b>Thesis reviewer:</b>	Lukáš Kazda
<b>Reviewer's department:</b>	Department of Automotive, Combustion Engine and Railway Engineering

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>extraordinarily challenging</b>
<i>How demanding was the assigned project?</i>	
Creating an automated generation of 3D part from drawing was very ambitious goal. It requires application of knowledge from various fields such as engineering, programming, and mathematics.	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
<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>	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
<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 consultations were on regular basis not only with the student, but with his internship supervisor as well. The meetings were conducted based on student's initiative and each new meeting brought new progress in his work.	

<b>Technical level</b>	<b>D - satisfactory.</b>
<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>	
I as someone who consulted the work regularly know what was done and that the technical solution works to everyone's satisfaction. But the text of the thesis presents very little insight into the solution. Without detailed information, it's hard to reproduce the work for anyone else.	
The procedure for bike frame parametrization is correct and all necessary formulas are given, but for better description of the problem, schemes of the bike frame would be welcome. Also, the actual implementation of the parametrization would deserve mentioning.	

<b>Formal level and language level, scope of thesis</b>	<b>E - sufficient.</b>
<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 language is at a good level. The text of the thesis is quite short for master level thesis (26 pages), part of that is due to small text size and spacing, but more information would be an improvement for sure. Reading other diploma theses on the topic would help not only to add more citation but also to get an idea how to write such a work.	

<b>Selection of sources, citation correctness</b>	<b>E - sufficient.</b>
<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>	
Almost no research was conducted to find earlier work on the topic.	



## THESIS SUPERVISOR'S REPORT

### 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.*

In my opinion it's more a report about how his internship went rather than an academic work.

### 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 believe that the internship was a great experience and the tools developed in scope of the thesis be used by the company. The low grade I'm awarding this thesis is because it is below standards of a good academic work.

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

Date: **7.2.2024**

Signature: