



SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

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| Thesis name: | Advanced Acoustic Barrier |
| Author's name: | Wolf Van Der Bauwhede |
| Type of thesis : | master |
| Faculty/Institute: | Faculty of Mechanical Engineering (FME) |
| Department: | Department of Mechanics, Biomechanics and Mechatronics |
| Thesis supervisor: | Prof. Ing. Michael Valášek, DrSc. |
| Supervisor's department: | Department of Mechanics, Biomechanics and Mechatronics |

II. EVALUATION OF INDIVIDUAL CRITERIA

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| Assignment | extraordinarily challenging |
| <i>Evaluation of thesis difficulty of assignment.</i> | |
| The initial assignment has been developed into complex area of investigation. | |

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| Satisfaction of assignment | fulfilled |
| <i>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.</i> | |
| The student succeeded to complete all planned activities and goals – CAD design of barriers, CAM model of barriers, 3D print of samples, measurement and evaluation of samples. The student succeeded to prepare many samples. | |

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| Method of conception | correct |
| <i>Assess that student has chosen correct approach or solution methods.</i> | |
| The student selected correct way of fulfilling all tasks. | |

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| Technical level | A - excellent. |
| <i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i> | |
| The student demonstrated the capability to study literature and apply the gained knowledge from it. The student succeeded to learn the 3D print from knowledge in the community that is demanding. | |

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| Formal and language level, scope of thesis | A - excellent. |
| <i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i> | |
| The thesis are written by correct language and denotation. However, the formulas should be enumerated. | |

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| Selection of sources, citation correctness | A - excellent. |
| <i>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.</i> | |
| The student has clearly demonstrated that he is capable to find relevant information on different topics and problems. | |

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| Additional commentary and evaluation |
| <i>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.</i> |
| Please insert your commentary (voluntary evaluation). |



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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 challenging goals of the thesis were fully achieved. The topic is promising and calls for further R&D. The results of the thesis should be published in journal paper.

I evaluate handed thesis with classification grade **A - excellent**.

Date: **19.6.2022**

Signature: