

## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>Application for Acoustic Signal Localization</b>
<b>Author's name:</b>	<b>Ma Yuchen</b>
<b>Type of thesis :</b>	bachelor
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	Department of Electrical Power Engineering
<b>Thesis reviewer:</b>	Ing. Jakub Svatoš, Ph.D
<b>Reviewer's department:</b>	Department of Measurement

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>ordinarily challenging</b>
<i>How demanding was the assigned project?</i>	
The thesis assignment was average challenging for a bachelor student.	

<b>Fulfilment of assignment</b>	<b>fulfilled with minor objections</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>	
The assignment was fulfilled with minor objection. During the solution of the bachelor's thesis, it was found that it is more convenient to work in Cartesian coordinate systems than in latitude and longitude. Therefore, after the discussion with Mr. Ma we decided to work with Cartesian coordinates.	

<b>Activity and independence when creating final thesis</b>	<b>C - good.</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>	
See comments.	

<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>	
The technical level of bachelor thesis is satisfactory.	

<b>Formal level and language level, scope of thesis</b>	<b>D - satisfactory.</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 format style and language level of Mr. Ma work is could be better. It is evident on the works quality that it was written at the very last moment.	

<b>Selection of sources, citation correctness</b>	<b>B - very good.</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>	
The student worked with citation sources correctly.	

<b>Additional commentary and evaluation (optional)</b>
<i>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.</i>
Implemented application and achieved results fulfilled the assignment.



### 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.*

Mr. Ma's bachelor's thesis deals with the design of a Matlab application for calculating the position of acoustic events detected by a defined number of units consisting of two microphones. Mr. Ma started to work on his thesis on time, regularly consulted the work, and met deadlines. During the work, Mr. Ma showed the ability to solve the assigned task effectively. The implemented application could be a good basis for further development. I have no complaints or comments about his practical work.

Another case is the written part of his bachelor's thesis. As written above, in the beginning, Mr. Ma regularly consulted and met deadlines when solving his bachelor's thesis. Unfortunately, that changed around mid-December, when he excused himself from the planned consultation and practically did not consult the written part of the bachelor thesis until the final submission. This was reflected in the quality of the thesis text, which, unfortunately, I had practically no time to comment on. The written part of Mr. Ma's bachelor thesis is the weakness of his work.

For the reasons stated above, I rate the work of Mr. Ma with grade C.

The grade that I award for the thesis is **C - good**.

Date: **15.1.2024**

Signature: