SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Home Automation using Arduino**
Author's name:	**Ahmed bin Fahad**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Instrumentation and Control Engineering
Thesis supervisor:	Libor Straka
Supervisor's department:	Department of Instrumentation and Control Engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	**challenging**
Evaluation of thesis difficulty of assignment.	
The student carefully processed the individual points of the assignment and independently orientated himself in the assigned issues.	

Satisfaction of assignment	**fulfilled**
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 student fulfilled all points of the bachelor's thesis assignment.	

Activity and independence when creating final thesis	**A - excellent.**
Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.	
The student regularly consulted and systematically supplemented the work process. I appreciate the great independence of the student and the activity during the consultations.	

Technical level	**A - excellent.**
Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.	
From the point of view of expertise, I especially appreciate the practical focus of this bachelor's thesis.	

Formal and language level, scope of thesis	**B - very good.**
Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.	
The work is at a very good level in terms of typography and language.	

Selection of sources, citation correctness	**A - excellent.**
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.	
The student used a large number of sources, the text contains links to the sources used. I did not notice a violation of citation ethics.	

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.
This bachelor thesis is of practical focus and the achieved results could be further used.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

This bachelor thesis deals with the use of Arduino in home automation. The student has shown that he is very well versed in the issue. The student worked independently, designed, tested and practically implemented a program and circuit with Arduino. The author described the individual steps, including a graphical display and with the help of flowcharts.

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

Date: **25.8.2021**   Signature: