TECHNICKÁ UNIVERZITA V LIBERCI
Fakulta mechatroniky, informatiky
a mezioborových studií

DIPLOMA THESIS EVALUATION
OPPONENT EVALUATION

Author name: Eliska Veisova

Thesis title: Case study of Industry 4.0 capability for fume exhaust units

Opponent: Dr. Stefan Jakschik

Opponent workplace: CTO of ULT AG

A. Abstract quality, keywords matching . . . . Excellent (1)

B. Research scope and processing . . . . Excellent (1)

C. Level of theoretical part . . . . Excellent (1)

D. Appropriateness of the methods . . . . Excellent (1)

E. Results elaboration and discussion . . . . Excellent (1)

F. Students own contribution . . . . Excellent (1)

G. The conclusion statement . . . . Excellent (1)

H. Fulfillment of Thesis tasks (goals) . . . . Fulfiled

I. Structure, correctness and fulness of references . . . . Excellent (1)

J. Typographical and language level . . . . Excellent (1)

K. Formal quality . . . . Excellent (1)
   (text structure, chapters order, clarity of illustrations)

Comments, remarks

Mrs. Veisova worked very structured already from the beginning of her task. She used methods of project management and scientific state of the art analysis. Her work was very focused to achive a maximum of results in the given time.

I like especially emphasize that all of the presented results are based on her own ideas and work. Mrs. Veisova made the concept of a "Internet 4.0 demonstration unit", designed the circuits, manufactured parts of the printed circuit boards, programmed the processor and had to build her own drivers for some sensors. Finally the prototype was prooven with test gases and dusts. To round the work up a very good summary by power point presentation and video demonstration was created.

Beside impressive results on scientific level cost was always kept at a minimum level.

To my evaluation this theses is an excellent engineering work.

Dr. Stefan Jakschik

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Overall assessment:

for example:
Additional comments to the above evaluation;
Thesis topicality;
Topic difficulty of theoretical knowledge, level of processing, work with scientific literature;
The benefits of work;
Experiments and their evaluation;
The importance for the practice / theory.

Questions for the defense:

Overall classification:

Work meets the Master degree requirements and therefore I recommend it for defense

I suggest to classify this work by grade Excellent (1)

In Loebau/ Germany

date 9.9.2016

By signing I certify that I am not in any personal relationship with the author of the thesis

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