DIPLOMA THESIS EVALUATION
SUPERVISOR EVALUATION

Author name: Kirill Lastochkin
Supervisor: Ing. Lukáš Hubka, Ph.D.
Thesis title: Explicit Predictive Control in Application

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 minus (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)

L. Student access (independence, activity etc.) . . . . Excellent (1)

Comments, remarks

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a mezioborových studií

Overall assessment:

Student successfully realized the explicit predictive control on uPC. It was necessary to prove the good knowledge of control theory, electro-technic and programming and to become familiar with a new control strategy, to understand them and to implement them on selected uPC. All these point were elaborated on very high level. Mainly the theoretical analysis and the range of measurement have to be underlined.

Questions for the defense:

1. How did you select poles of observer (p. 60)?
2. How did you realize zero-offset tracking of reference in the program on uPC? Why there is still some offset constant in test scheme on Fig. 4.21 (p. 61)?
3. Did you measure the required time for one step on uPC?
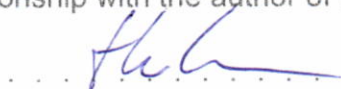
Overall classification:

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

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

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date 4.6.2015

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

Supervisor signature

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