



DIPLOMA THESIS EVALUATION SUPERVISOR EVALUATION

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Thesis title: Hard- and Software Development for a Mobile Robot based on RaspberryPi and OpenCV

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)	Fulfilled
I. Structure, correctness and fulness of references	Excellent (1)
J. Typographical and language level	Excellent (1)
K. Formal quality (text structure, chapters order, clarity of illustrations)	Excellent (1)
L. Student access (independence, activity etc.)	Excellent (1)

Comments, remarks

- Thesis deals with Hard- and Software Development for a Mobile Robot based on RaspberryPi and OpenCV
- Tasks were: - Choose a suitable hardware platform for mobile robot
 - Implementation of access to robot devices like sensors, engines etc.
 - Porting of OpenCV computer vision library to the embedded RaspberryPi platform
 - Detection of objects with OpenCV

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Overall assessment:

- excellent work with a lot of practical effort

Questions for the defense:

1. Can you explain the main features of RaspberryPi ?
2. Why did you decide for RaspberryPi ?
3. What are the main features of the OpenCV Computer Vision library ?
4. Can you show some features of your robot live ?

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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 Zittau

date 04.01.2016

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

Prüfungsausschuss
Hochschule Zittau/Görlitz
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Fachbereich Elektro- und Informationstechnik


Supervisor signature