



## **SUPERVISOR'S REPORT ON THE MASTER'S THESIS**

Master's thesis title..... **Service Board Design for a Traction  
Battery of a Battery Electric Vehicle**

Author (including degrees)..... **Bc. Josef Černý**

Master's thesis supervisor (incl. deg.) ..... **Ing. Jindřich Sadil, Ph.D.**  
**doc. Ing. Martin Leso, Ph.D.**

### **Evaluation criteria and their classification**

Fulfilment of the master's thesis requirements and goals .....A (excellent) ... 1,0

Self-action and own initiative  
during the master's thesis elaboration .....A (excellent) ... 1,0

Application of knowledge gained  
by self-study and from professional literature.....A (excellent) ... 1,0

Usage of groundwork and data from practice..... B (very good) ... 1,5

Professional level and contribution of the master's thesis.....A (excellent) ... 1,0

Formal aspects of the master's thesis .....A (excellent) ... 1,0

### Further comments to the master's thesis:

He thesis requirements were quite difficult. Master student has worked consistently on relevant tasks consistently. Student overcame the requirements, because he not only designed HW and SW of the service board, but he also realised the service board and proved its function. These practical tasks were not without more or less faults and significant help of supervisors. Nevertheless, all the faults were overcome during elaboration of the thesis or it is possible to overcome them easily in the near future.

The result of the thesis is valuable and will be directly use in practice to improve the operation of battery electric vehicle.

### Remarks:

- the thesis seems to be a work of master student. In fact, the were some initial design materials provided by supervisor Martin Leso. This is not mentioned in thesis.
- page 28 and 29: maximum voltage of LiFeYPO<sub>4</sub> cells is 3,8 V according to the manufacturer / distributor, but for better cycle life, we use 3,65 Volts in Saxo battery electric vehicle.

I **recommend** the master's thesis for the defence.

**Summary classification of the master's thesis .....A (excellent) ... 1,0**

Ing. Jindřich Sadil, Ph.D.

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master's thesis supervisor's name

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master's thesis supervisor's signature

In Prague ..... - June 6, 2016 -