

## Supervisor assessment of Master's Thesis

**Student:** Kardoš Juraj, Ing.  
**Title:** Auto Taxi System Design for Aircraft (id 17237)  
**Supervisor:** Chudý Peter, Ing., Ph.D. MBA, UPGM FIT VUT

### 1. Assignment comments

The selected topic represents a complex task with the effort evenly distributed between the design and implementation of a high fidelity ground operation simulation model of a jetliner and the design and implementation of an AutoTaxi system. The implemented AutoTaxi control approaches include modern control concepts, which make the AutoTaxi solution interesting for a future industrial application.

### 2. Literature usage

The author worked successfully with a wide scope of references, all of which were content-wise related to the topic of the thesis. The author performed a careful individual and focused research on the modern control system design as well as on the related modeling and simulation tasks. The author mastered the utilization of the published resources and along with his individual contributions successfully designed and implemented an AutoTaxi system into a purposely-developed simulation framework.

### 3. Assignment activity, consultation, communication

The author had an active approach during his work on the thesis and demonstrated a high level of commitment in achieving excellent results. The author attended the scheduled meetings regularly and was well prepared. He meaningfully contributed to the meeting discussions and was subsequently able to draw individual conclusions and transforming them into an operational concept. Communication with the author was conclusive and punctual.

### 4. Assignment finalisation

Both, the implementation part and the text part of the thesis have been finished well in advance of the deadline and the content has been thoroughly examined. Minor modifications originating from the meeting discussions and periodic reviews have been included into the thesis.

### 5. Publications, awards

The author successfully presented the AutoTaxi system at the 2015 Excell@FIT student conference.

### 6. Total assessment

**excellent (A)**

Student's overall activity and motivation were at a high level throughout the entire work on the thesis. Accomplished results contribute to the overall fidelity of the implemented simulation environment and represent a solid basis for a potential future research and development on the field of AutoTaxi control system design. The amount of demonstrated knowledge and focus needed for successfully accomplishing the thesis was well beyond the usual expectations. I recommend the thesis for the defense. Suggested grade as based on the above mentioned: Excellent (A).

In Brno 10. June 2015

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