

Prof. Dr. František Schauer, DSc.

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## **Supervisors' assessment of the cooperation with PhD candidate –**

### **Pavel Beňo, MSc**

The cooperation with Pavel Beňo, MSc. started in school year 2011/2012 , when he started his post gradual PhD program study. Then he was already an experienced IT expert in general and a specialist on cloud technologies as a root of the Trnava University network, particular.

His study plan was oriented on building network of Remote laboratories in frame of EU, and accordingly, detailed plan of examinations and participation in Internal Grant Agency (IGA) projects was constituted. He successfully passed all examinations according to the plan, participated in three years of IGA projects, and in March 2016 he passed also successfully the doctoral examination with specified plan to finish his thesis “Cloud computing solutions and security of EU remote interactive laboratories network”. He is, during his PhD studies, the author/co-author of 14 research papers and responsible scientist for 6 IT projects of Trnava University. Especial appreciation requires the series of EU projects for building the cloud HW and SW, serving exclusively for the purpose of embedding the REMLABNET - management system of FAI remote laboratories. Thus, private FAI cloud, exclusively oriented on remote laboratories and their services, was introduced as the first in Europe and served for federalization under auspices of EU projects Go-Lab and Graasp. He was also responsible scientist of the Swiss National Science Foundation SCOPES project.

Pavel Beňo, MSc was during his doctoral study active member of the numerous team of doctoral FAI students, who both accommodated in cloud management system REMLABNET and several additional services (RlaaS, GaaS,

TCaaS and STaaS) and devised additional forms of management system CC-REMLABNET (using cloud technologies) and also TC-REMLABNET (thin client) using new tool REMLABGRAB.

Pavel Beňo, MSc during his PhD studies turned out to be efficient, self-supporting and active student of PhD study program. His approach reflected in participation at conferences and 14 paper publications in international journals. The achieved results of his extensive activities testify the fact that Pavel Beňo, MSc grew into all round specialist of both hw and sw of cloud technologies, recognized for his achievements by the international community.

His thesis summarizes all the activities in the field of private virtualized cloud techniques as to HW and SW, and particularly in the field of embedding of remote laboratories with high scientific asses to the field.



Zlin, 26. 11. 2019

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