

Curriculum Vitae

Ondřej Hajný

Personal Data:

First name: Ondřej
Surname: Hajný
Date of birth: November 11, 1987
Place of birth: Kadaň, Czech Republic
Citizenship: Czech Republic, EU

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Professional Experience:

July 2014 – present, **Field Service Engineer**, MR Diagnostic s.r.o.
Spirometry, Body plethysmography, Scales, ECG, Stress ECG, ECG and RR Holters, Ergometry, Ergo-spirometry

2012 – 2014, **Researcher – Laboratory Management**, CTU in Prague, Faculty of Biomedical Engineering, Department of Biomedical Technology
Non-convention ventilator research team, Management of animal experiments (technical) and data processing, leading of student's research practice in labs

2009 – 2011, **Research and Teaching Assistant**, CU, 3th Faculty of Medicine, Department of Normal, Pathological and Clinical Physiology
EEG lab service, ensure technical support for medical research, signal processing, help with teaching students of medicine

Education and Professional Studies:

Degree: M.Eng. (Ing.); Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Segmentation of Retina Layers in the OCT Images”; 2012.

Short time courses: Vetrám – course of ventilatory physiology focused on biomodel of ARDS (Charles University in Prague, November 30, 2012, Prague, Czech Republic);

Degree: BSc. (Bc.), Institution: Czech Technical University in Prague, Faculty of Electrical Engineering; thesis: “Study of Patient Stand and Stability”; 2010.

ESF Certified Term Course of Nanotechnology – Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering, 2008

Awards and Honors:

Thesis Award – University Student Competition Technology Cup 2012, Thesis: “Segmentation of Retina Layers in the OCT Images”, Brno, 2012

Poster Award – Student Conference Poster 2010, 4th place, Theme: “Study of Gait Angles and Posture in Physiotherapy by Cyclograms and Methods of AI”, Czech Technical University in Prague, 2010.

Publications:

Laviola M., Hajny O., Roubik K.: Continuous distending pressure effects on variables contributing to oxygenation in healthy and ARDS model pigs during HFOV, *INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2014 (ICCMSE 2014)*, Athens, 2014

Hajny O., Farkasova B.: A Study of Gait and Posture with the Use of Cyclograms, *Acta Polytechnica*, Vol. 50, Praha: Czech Technical University, 2010, ISSN 1210-2709

Kutilek P., Hajny O.: Study of Human Walking by SimMechanics, Technical Computing, Bratislava, 2010

Selected Skills:

Microsoft© Windows; Microsoft© Office;
Mathworks© Matlab and Simulink; Comsol Multiphysics (basic)
National Instruments© LabView & Signal
Image and Signal Processing, Medical Imaging, Artificial Ventilatory and Respiratory Care
Biomedical Measurement and Instrumentation; Medical Deices
Strong Manual Skills, Leadership Skills, Team Spirit

Languages:

Czech (Native)
English (Professional working proficiency)
German (Elementary proficiency)

Other Interests:

eHealth, New Technologies, Medical Technologies, Sports (running, swimming, bike riding, crossfit)