

Curriculum Vitae

Leoš Tejkl

Personal Data:

First name: Leoš
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Date of birth: 4. 5. 1994
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Education:

Degree: BSc. (Bc.) ; Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: „ Dynamometric measurement system “; 2016

Degree: M.Eng. (Ing.); Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Analysis of the influence of oxygen fraction in the gas mixture on arterial blood oxygen saturation in newborns”; 2018

Ongoing study: Ph.D.; Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Optimization of automatic control of oxygenation in premature infants”

Appointments:

BTL Medical Technologies; Technically worker in HW development (2016)

B. Braun Medical CZ; IT support: student program (2017 – 2018)

Institute of Physiology, First Faculty of Medicine, Charles University; Technician in simulation center and Cardiac Electrophysiology Experimental Lab (2018 – present)

Linet spol. s r. o.; External consultant for clinical evaluation (2019)

Teaching experience:

Czech Technical University in Prague, Faculty of Biomedical Engineering, since 2018 to present. Bachelor’s and master’ subjects: Medical Devices & Equipment, Patient and Device Simulators and Testers

Supervising bachelor and master students

Other skills:

English

PC: Windows/ OS X, Microsoft Office (Word, Excel, PowerPoint, Outlook)

Matlab and Simulink (Certified training: Simulink II and Matlab III; HUMUSOFT s.r.o.)

LabView, SolidWorks, Eagle CAD, Laerdal SimDesigner

Driving license A and B

Publications:

Kudrna, P.; Tejkl, L.; Rožánek, M. Electronic hand grip dynamometer In: 2017 E-Health and Bioengineering Conference (EHB). Iasi: Gr. T. Popa University of Medicine and Pharmacy, 2017. p. 249-252. ISBN 978-1-5386-0358-1.

Ráfl, J.; Bachman, T.; Martínek, T.; Tejkl, L.; Huttová, V.; Kudrna, P.; Roubík, K. Design and demonstration of a complex neonatal physiological model for testing of novel closed-loop inspired oxygen fraction controllers In: World Congress on Medical Physics and Biomedical Engineering 2018 (Vol. 1). Springer Nature Singapore Pte Ltd., 2019. p. 725-729. IFMBE Proceedings. vol. 68/1. ISSN 1680-0737. ISBN 978-981-10-9034-9.

Tejkl, L.; Huttová, V. The Effect of Change of Inspired Oxygen Fraction upon Peripheral Oxygen Saturation in Premature Infant: A Mathematical Model Enhancement In: Proceedings of the International Student Scientific Conference Poster – 22/2018. Praha: Czech Technical University in Prague, 2018. ISBN 978-80-01-06428-3.

Tejkl, L.; Ráfl, J.; Kudrna, P. The time delay of O₂ delivery in ventilatory system after the change of FiO₂: A mathematical model enhancement In: The Eighth Young Biomedical Engineers and Researchers Conference YBERC 2018. Košice: Technical University of Kosice, 2018. ISBN 978-80-8086-271-8.

Ráfl, J.; Huttová, V.; Möller, K.; Bachman, T.; Tejkl, L.; Kudrna, P.; Rožánek, M.; Roubík, K. Computer model of oxygenation in neonates: A demonstration of utility Current Directions in Biomedical Engineering. 2019, 5(1), 73-76. ISSN 2364-5504.

Tejkl, L.; Kudrna, P.; Ráfl, J.; Svoboda, J. Patient Simulators in Medical Education: New Enhancements In: E-Health and Bioengineering EHB 2019. Iasi: Gr. T. Popa University of Medicine and Pharmacy, 2019.

Tejkl, L.; Ráfl, J.; Kudrna, P. The Time Delay of Air/Oxygen Mixture Delivery after the Change of Set FiO₂: An Improvement of a Neonatal Mathematical Model Lékař a technika – Clinician and Technology. 2019, 3(49), 77-82. ISSN 0301-5491.