

Petró, Bálint

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Short Profile:

- PhD student of Biomechanics at Budapest University of Technology
- Visiting researcher at Auckland University of Technology, New Zealand
- Mechatronics MSc. and Energy engineering BSc. degree from BUT
- Biomechanics, biomechanics, statistics, EEG, neural networks
- Control engineering, system design, machine learning, computer vision
- IT skills: MatLab, SPSS, python, Mathematica, LabView, AutoCAD, MS-Office
- Fluent English, native Hungarian, conversational Spanish skills
- Leadership jobs at summer camps in the USA and Canada, 2013-2016
- Organized and responsible; Passionate and creative; Flexible and adaptive

University Studies

2017 – Present

PhD studies, Biomechanics

Specialized in Biomechanics and Biomedical Engineering

Budapest University of Technology and Economics

Main areas: Biomechanics; EEG; Computer vision; Machine learning.

2015 – 2017

Mechatronics Engineer, MSc.

Specialized in Biomechanics – Graduated with Honors

Budapest University of Technology and Economics

Main studies: Control theory and practice; Integrated System Design; Electronics; Machine Dynamics

2011 – 2015

Energy Engineer, BSc.

Specialized in Buildings Energetics – ‘Excellent’ degree

Budapest University of Technology and Economics

Main studies include: Energetics; Power plants; Renewables; Energy sources and policies; Caloric machines.

2010 – 2011

General Medicine

Completed freshman year with GPA 4.1 / 5.

University of Debrecen, Faculty of General Medicine

Technical Work Experience

11 / 2017 – 06 / 2018	Visiting Researcher Knowledge Engineering and Discovery Research Institute, Auckland University of Technology, <i>Auckland (New Zealand)</i> Funded by EU Panther project grant
01 / 2015 – 02 / 2015	Project Engineer Trainee, HVAC area Euro-Madura Building Services Design and Contractor Ltd., <i>Nyíregyháza (Hungary)</i> Technical assessment of building services contracts, projects and budgets; Energy evaluation, documentations; AutoCAD.
01 / 2014 – 02 / 2014	

International Experience

Summers of 2015 – 2016	Sports Activity Head Staff Camp Tamarack, <i>Bracebridge, Ontario (Canada)</i> Team management; High ropes work; Team-building activity leading; Event organizing
Summers of 2013 – 2014	Summer Camp Counselor YMCA Camp Jones Gulch, <i>La Honda, California (USA)</i> Leading and caring for groups of children; leading sports activities; organizing events.

Major projects

04 / 2017 – currently	Analysis and development of signal encoding-decoding algorithms for spiking neural networks as a visiting researcher at AUT-KEDRI
02 / 2016 – 02 / 2017	Software development project of motion analysis laboratory as part of a student and doctorate project at Budapest UT
05 / 2016	ContiCup Engineering Competition – 4 th place in national round
11 / 2015	1 st prize at Scientific Students' Associations Conference, Budapest UT, institutional round
01 / 2015	Energy and HVAC assessment of straw-bale buildings in Hungary, <i>BSc. final thesis</i>

Other skills

IT Knowledge:	MatLab, SPSS, python (scikit-learn, tensorflow), Mathematica, git, LabView, AutoCAD, microcontrollers, Microsoft Office Fundamental knowledge of C#
Language certificate	English – ECL Language Exam Combined C1, 04 / 2010 Fluent speaking and excellent writing skills
Language knowledge	Spanish Basic Course, 2016, attained level: A2 Native Hungarian
Driver's license	Categories A1 and B (since 11/2009)

Hobbies

Sustainability, Medical technologies, Space technologies.
Martial arts, hiking, adventure courses.