Balazs Andras Kovacs

Curriculum Vitae

Educations

Schools

2015–2017 **Master of Mechanical Engineering**, *Budapest University of Technology and Economics, Applied Mechanics*, Budapest, *Grade: Excellent*.
Thesis title: *Development and test of a virtual pole balancing platform*

2011–2015 **Bachelor of Mechanical Engineering**, *Budapest University of Technology and Economics, Mechanical Developer*, Budapest, *Grade: Excellent*.
Thesis title: *Motion control considering actuator saturation*

2007–2011 **High school studies**, *ELTE Apaczai Csere Janos Practice School*, Budapest.

Experiences

Vocational

2016–present **MTA-BME Lendulet Human Balancing Research Group**, Budapest.
Research Assistant
- Publications in a scientific paper and a conference.
- Participation at the National Student Scientific Conference

2016 **Robert Bosch Kft.**, Budapest.
Simulation Engineer Trainee
- Wiper Systems Simulation Engineer

2014 **C3D Kft.**, Budapest.
- Summer internship: Simulation Engineer

Miscellaneous

2016–2017 **Lockdown Worldwide Kft.**, Debrecen.
Industrial Designer
- Design and production of game items

Publications

Journal

Kovacs BA., Insperger T, Retarded, neutral and advanced differential equation models for balancing using an accelerometer, *International Journal of Dynamics and Control*, Springer 2017, 10.1007/s40435-017-0331-9.

Conference

extended abstract   Kovacs BA, Insperger T, Different models for balancing using accelerometer, *9th European Nonlinear Dynamics Conference (ENOC)*, Budapest, June. 25-30 2017

Languages

Hungarian	**mother tongue**	
English	**B2**	*Fluent conversation*
French	**Basic**	*Basic words and phrases only*

Computer skills

Basic systems	MS Office (Excel, Word, PowerPoint), LATEX,Linux, Microsoft Windows, Mac OSX
Vocational software	MATLAB, ANSYS, SOLIDWORKS, AUTOCAD, MATHEMATICA
Programming languages	C,C#, PYTHON,JAVA

Other skills

Driving license	B category
Miscellaneous	making of FEM, CFD and dynamical simulations, measurement setups good working capacity, reliability, sociability

Interests

research:	dynamical systems, control theory, differential equations
programming:	software development, micro-controllers
sport:	basketball, snowboarding