

# *curriculum vitae*

## personal details:

name: Tamás Faitli  
location: Otaniemi, Espoo  
Finland  
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nationality: hungarian



## objective:

- Gain experience in the field of my studies.
- Learn from experienced people.
- Challenge myself in different projects.
- Discover new things

## education:

2019(sept)- Aalto University, Helsinki  
Autonomous Systems (EIT Digital Master's Programme, Entry Year)  
2017 fall Norwegian University of Science and Technology, Ålesund (Norway)  
ICT and Automation (exchange student for 1 semester)  
2014-2018 Óbuda University, Budapest  
Bánki Donát Faculty of Mechanical and Safety Engineering  
Bsc, mechatronical engineering (in English)  
2010-2014 Földes Ferenc Secondary School, Miskolc  
specialized in Mathematics and Physics

## experiences:






2018.07.- software developer, Robert Bosch GmbH, Budapest  
2019.08 - development of parkpilot systems for vehicles based on ultrasonic sensors  
2018.02.- software developer trainee, Robert Bosch GmbH, Budapest  
2018.07  
2017. 02.- software developer trainee, Robert Bosch GmbH, Budapest  
2017. 08.  
2015/16 external lecturer (mathematics), in frame of a student program to help the students, organized by the Student Union at Bánki Donát Faculty

2012-2016     sound and light technician, Elwood sound&light technics, Miskolc

### skills:

- good analytical skills
- problem solving skills
- system thinking
- ability to work in team or individually

### computer skills:

prog. lang.:	python		julia, MatLab	
	c/c++		Visual Basic	
	java / c#			

other exp.:     git, OpenGL, ROS, HTML5, CSS3, Linux experiences

softwares:     MatLab, Simulink  
                    LaTeX, Microsoft Office  
                    MKS Integrity, IBM Doors, Sparx Enterprise Architect  
                    basic experience with several CAD softwares

### scholarships:

2019	EIT Digital scholarship for studies in Autonomous Systems
2017/18	„Novel National Excellence Program” (research scholarship for 10 months)
2017	Erasmus and Campus Mundi scholarship (one semester to Norway)
2016/17	Fellowship granted by the Republic

### languages:

mother tongue:	hungarian
advanced level:	english
basic knowledge:	finnish, german, norwegian

### other:

driving license, category B

### hobbies:

running, cycling, swimming, table tennis  
reading  
music (guitar, piano)  
game programming (smaller hobby projects), modelling game objects  
diy electronics

## publications:

- [1] **T. Faitli**: Investigation of Fixed Point Transformations Based Adaptive and Fixed Point Transformations Based Model Reference Adaptive Control Methods for a Robot Arm (in hungarian), Scientific Student Conference, BGK Óbuda University, November 15, 2017.
- [2] **T. Faitli** and J.K.Tar: "Solution of the inverse kinematic task of a robot-arm based on quasi-differential fixed point transformation method", In Proc. of the XXIII-rd International Scientific Conference of Young Engineers, Cluj-Napoca, Romania, March 22. 2018, pp. 71-74.
- [3] **T. Faitli**: Investigation of the control of the TORA system using Receding Horizon Control and Adaptive Receding Horizon Control (in hungarian), Scientific Student Conference, BGK Óbuda University, April 18, 2018.
- [4] J.K. Tar, J.F. Bitó, L. Kovács and **T. Faitli**: "Fractional Order PID-Type Feedback in Fixed Point Transformation-Based Adaptive Control of the FitzHugh-Nagumo Neuron Model with Time-Delay", 3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control, May 9-11, 2018, Ghent, Belgium, pp. 906-911
- [5] **T. Faitli**: Investigation of Control Methods for a Speed-controlled Electric Motor (BSc Thesis, Supervisor: J.K. Tar), Óbuda University, Donát Bánki Faculty of Mechanical and Safety Engineering, Institute of Mechatronics and Autotechnics, Budapest, Hungary (Supervisor: József K. Tar), 2018.
- [6] **T. Faitli** and J.K. Tar: "Studying Various Cost Functions by Nonlinear Programming for the Control of an Underactuated Mechanical System", In. Proc. of the 27th Intl. Conf. on Robotics in Alpe-Adria-Danube Region (RAAD 2018), June 6-8 2018, Patras, Greece (to be issued by Springer)
- [7] H. Khan,**T. Faitli**, T. Szili and J.K. Tar: "Preliminary Investigation on the Possible Adaptive Control of an Inverted Pendulum-type Electric Cart", In Proc. of the 18th IEEE International Symposium on Computational Intelligence and Informatics (CINTI 2018), Nov. 21-22, 2018, Budapest, Hungary, pp. 109-113 (available in IEEE Explore)