

György Eigner

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EDUCATION

Óbuda University, Budapest, Hungary

- **PhD, Informatics** Sept 2013 – Jun 2017
 - Applied Informatics and Applied Mathematics Doctoral School
 - Thesis: Closed-Loop Controller Design Possibilities for Nonlinear Physiological Systems
 - Supervisor: Prof. Dr. habil Levente Kovács
 - Grade: Summa Cum Laude

Budapest University of Technology and Economics, Budapest, Hungary

- **MSc, Biomedical Engineer** Sept 2011 – Jun 2013
 - Faculty of Electrical Engineering and Informatics
 - Thesis: Development of graphical interface and insulin pump framework for control of artificial pancreas
 - Supervisor: Prof. Dr. habil Levente Kovács
 - Grade: Excellent

Óbuda University, Budapest, Hungary

- **BSc, Mechatronics Engineer** Sept 2006 – Jun 2011
 - Donát Bánki Faculty of Mechanical and Safety Engineering
 - Thesis: Introduction of heat pumps, model design and development of a demonstration tool
 - Supervisor: Dr. Tamás Szakács
 - Grade: Good

WORK EXPREIENCE

Óbuda University, John von Neumann Faculty of Informatics

- **Assistant professor** Jun 2017 – Jul 2018
 - Participation in R&D projects and doing research activities
 - Participation in the elaboration of Hungarian and international project proposals (e.g. GINOP, OTKA, H2020)
 - Development of education materials and doing teaching activities
- **English program coordinator** Jun 2017 –
 - Arranging the tasks regard to the application, enrollment, teaching and administration of foreign students related to the Faculty; supporting the administrative offices; and communication among the related units of the university
- **Assistant lecturer** Jun 2017 – Jul 2018
 - Participation in R&D projects and doing research activities
 - Participation in the elaboration of Hungarian and international project proposals (e.g. GINOP, OTKA, H2020)
 - Development of education materials and doing teaching activities
- **Departmental engineer** May 2015 – Jun 2017
 - Participation in R&D projects and doing research activities
 - Participation in the elaboration of Hungarian and international project proposals (e.g. GINOP, OTKA, H2020)
 - Development of education materials and doing teaching activities
- **Member of the council of the Institution** 2017 –
 - Óbuda University, Boimatics Institution

Óbuda University, Physiological Reserach Center

- **Researcher** Sept 2013 –
 - Doing research activities, participation in R&D projects (since June 2017 as PostDoc researcher)

Thormed Kft.

- **Specialist** Jun 2012 – Aug 2012
 - Mechanical installation, material acquisition

Chemimontazh Kft.

- **Engineer trainee** May 2011 – Aug 2011
 - Documentation management, participation in the design of a wastewater treatment plant operated in a foreign country (drawing of fire protecting instruments in a CAD system, review of CAD drawings); designing of mechanical components

ézsé Kft.

- **Mechatronics engineer** Apr 2011 – May 2011
 - Development of unique building system; technical consultation

Wärtsila Kft.

- **Maintenance engineer trainee** Sept 2010 – Oct 2010

- Quality measurements on parts and documenting the results; helping in the renovation of gas engine with 16 cylinder under the supervision of the plant engineer

BorgWarner Turbo Systems Kft.

- Production engineer trainee Jun 2010 – Aug 2010
 - Doing manufacturing and process engineering activities; function development; training of the operators; post workstation design and layout; guidance of German colleagues
- Production engineer trainee Jun 2009 – Aug 2009
 - Participation in a project regard to a newly introduced manufacturing method; function development; production of test parts; development of work instructions for operators; participation in the FMEA and QP elaboration

PROFESSIONAL PROJECTS

Óbuda University, John von Neumann Faculty of Informatics

- Researcher
 - National Development Agency, GOP-2011-1.1.1 program, GOP-1.1.1-11-2012-0055 project, „DIALOGIC – Mathematical model-based decision support system to improve diabetes health management” (2012-2013)
- Researcher
 - National Development Agency, GOP-2011-1.1.1 program, GOP-1.1.1-11-2012-... project, „ROBOT-X – Robot design kit development for educational, hobby and research and development purposes” (2013-2014)

COMPUTER AND PROFESSIONAL SKILLS

- Engineering tools
 - MATLAB, SCILAB
- CAD-CAM knowledge
 - Solidworks, AutoCad, SolidEdge, ProE, Catia, Altium Designer
- Office tools
 - MS Office (Word, Excel, Powerpoint, Visio), L^AT_EX, Mailing systems
- Collaboration platform
 - Slack
- Other experiences
 - General highly-developed programming languages (basics)
 - Machine Learning (basics, smaller MATLAB based developments)
 - Experiences in elaboration of project proposals (Hungarian and H2020)

LANGUAGES

- English: advanced level, daily usage (B2 complex language exam)
- German: basic level, occasional usage (B1 basic language certificate)

SCHOLARSHIPS AND AWARDS

- Research scholarship, New National Excellence Program (ÚNKP) Ministry of Human Capacities Sept 2017 – Jun 2018
- Research scholarship, New National Excellence Program (ÚNKP) Ministry of Human Capacities Sept 2016 – Jun 2017
- Student Publication Award 2016
Óbuda University
- Outstanding Contribution Award 2016
IEEE Systems, Man, and Cybernetics Society
- Finalist, Best Conference Paper Award 2016
IEEE Systems, Man, and Cybernetics Society 2016 international conference
- Institutional Award for excellent publication activity 2016
Óbuda University, John von Neumann Faculty of Informatics, Biomatics Institution
- Finalist, Antal Bejczy student publication contest 2016
Óbuda University, Research, Innovation and Service Center, Antal Bejczy Center for intelligent robotics
- Winner, Best Conference Paper Award for the paper *”Robust Fixed Point Transformation based Proportional-Derivative Control of Angiogenic Tumor Growth”* 2018
2018 IFAC Conference on Advances in Proportional-Integral-Derivative Control
- Dean’s award 2018
For the excellent work in favor of the Faculty (John von Neumann Faculty of Informatics, Óbuda University)

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL BODIES

Institute of Electrical and Electronics Engineers - IEEE, Piscataway, New Jersey, US

- Member 2013 –
IEEE, IEEE SMC, IEEE BMS, IEEE RAS, IEEE WiE, IEEE YP

- Elected board member 2017 – 2019
IEEE Systems, Man, and Cybernetics Society
 - Board member 2017 –
IEEE Hungary Section, Student and Professional Activities
 - Program Coordinator 2017 –
IEEE Systems, Man, and Cybernetics Society, Membership and Student Activities
 - Chair 2017 –
Young Professional Subcommittee, IEEE Systems, Man, and Cybernetics Society
 - SMC Society representative 2017 –
IEEE Young Professional Liason
 - Co-Chair 2017 –
Computational Cybernetics Technical Committee, IEEE Systems, Man, and Cybernetics Society
 - Member 2017 –
Brain-Machine Interface Systems Technical Committee, IEEE Systems, Man, and Cybernetics Society
 - Member 2017 –
Cyber-Medical Systems Technical Committee, IEEE Systems, Man, and Cybernetics Society
 - Member 2017 –
Electronic Communication Subcommittee, IEEE Systems, Man, and Cybernetics Society
 - Chair 2014 – 2017
Student Activities Subcommittee, IEEE Systems, Man, and Cybernetics Society
- Robotics Special College,**
Óbuda University
- Member 2015 –
- Hungarian Academy of Sciences,**
Budapest, Magyarország
- Member of the Public Body 2018 –

**PUBLICATION
STATISTICS**

INTERNATIONAL JOURNALS

12 pcs international journal and scientific magazine publications

INTERNATIONAL CONFERENCES

32 pcs international and 3 pcs hungarian publications

BOOK EXCERPT

1 pc publication

ABSTRACT

1 pc abstract publication

**TEACHING
ACTIVITIES**

IN HUNGARIAN

- Control engineering (laboratory, BSc, 2016–)
- Electronics (laboratory, BSc, 2013–)
- Digital technics (laboratory, BSc, 2013–2014)

IN ENGLISH

- Electronics (laboratory, BSc, 2013–)
- Control engineering (theory + laboratory, BSc, 2015–)
- Distributed Embedded Systems (theory, MSc, 2014–2016)
- Embedded Informatic Embedded Systems (theory, MSc, 2015–2016)
- High-Availability Embedded Systems (theory, MSc, 2017–)

**THESIS ADVISOR
ACTIVITIES**

ÓBUDA UNIVERSITY

- Thesis work, Bachelor level (in Hungarian): 3 students in progress (already defended: 0 students)
- Thesis work, Master level (in Hungarian): 2 students in progress (already defended: 0 students)
- Thesis work, Master level (in English): 4 students in progress (already defended: 0 students)

BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS

- Thesis work, Master level (in Hungarian): 2 students in progress (already defended: 2 students)

**REVIEWING
ACTIVITIES**

Thesis work (Master and Bachelor): ÓU, BME, PE, SzIE

Scientific Students' Associations, Council of Scientific Students' Associations

International conferences: IEEE SAMI, IEEE SACI, IEEE INES, IEEE CINTI, IEEE SISY, IEEE SMC, IEEE ICIEA, IFAC CMPB, IEEE IWOB, IFAC WC, Neumann colloquium

International Journals: Acta Polytechnica Hungarica, Ain Shams Engineering Journal, IEEE Access

ORGANIZATION OF CONFERENCE ORGANIZING COMMITTEE MEMBERSHIP

SCIENTIFIC AND PROFESSIONAL EVENTS

- Junior Co-Chair, IEEE Systems, Man, and Cybernetics Junior 2016 (SMC Junior 2016)
- Student Activities Co-Chair, IEEE Systems, Man, and Cybernetics 2016 (SMC 2016)
- Junior Co-Chair, IEEE Systems, Man, and Cybernetics Junior 2017 (SMC Junior 2017)
- Track Chair: SMC Junior, IEEE Systems, Man, and Cybernetics Junior 2017 (SMC Junior 2017)
- Track Chair: SMC Junior, IEEE Systems, Man, and Cybernetics Junior 2018 (SMC Junior 2018)
- Track Chair: Informatics Track, 16th International Symposium on Intelligent Systems and Informatics (SISY 2018)
- Junior Co-Chair, IEEE Systems, Man, and Cybernetics 2019 (SMC 2019)
- Junior Co-Chair, IEEE Systems, Man, and Cybernetics 2020 (SMC 2020)

SPECIAL SESSION ORGANIZING COMMITTEE MEMBERSHIP

- Co-Chair, Computational and Medical Cybernetics Special Session at IEEE SMC 2017
- Co-Chair, Computational and Medical Cybernetics Special Session at IEEE SMC 2018

TECHNICAL PROGRAM COMMITTEE MEMBERSHIP

- IEEE SAMI, IEEE SACL, IEEE INES, IEEE CINTI, IEEE SISY, IEEE SMC, Neumann colloquium

OTHER ORGANIZING COMMITTEE MEMBERSHIP

- Committee member, International Summer School on Companion Technology Summer School, September 9-13, 2017 in Ulm, Germany
- Young Professionals in Space (YPS), June 17-21, 2018 in Barcelona, Spain
- IEEE SMCS Thesis Grant Initiative 2017, Coordinator, (one of the initiators in 2017)
- IEEE SMCS Thesis Grant Initiative 2018, Coordinator

PUBLICATIONS

<https://m2.mtmt.hu/api/publication?cond=published;eq:true&cond=core;eq:true&cond=authors.mtid;eq:10040924&sort=publishedYear,desc&sort=firstAuthor,asc&page=1&size=20&fields=template&labelLang=hun>