

# 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

- **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 –
  - 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

### 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<sup>A</sup>T<sub>E</sub>X, 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 oral basic language certificate)

## SCHOLARSHIPS AND AWARDS

- Research scholarship, New National Excellence Program (ÚNKP) Sept 2017 – Jun 2018  
Ministry of Human Capacities
- Research scholarship, New National Excellence Program (ÚNKP) Sept 2016 – Jun 2017  
Ministry of Human Capacities
- 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, Resrach, Innovation and Service Center, Antal Bejczy Center for intelligent robotics

## 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
- Chair 2014 – 2017
- Student Activities Subcommittee, IEEE Systems, Man, and Cybernetics Society

**Robotics Special College,**

Óbuda University

- Member 2015 –

**PUBLICATION STATISTICS**

**INTERNATIONAL JOURNALS**

9 pcs international journal and scientific magazine publications

**INTERNATIONAL CONFERENCES**

29 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

**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)
- Junior Co-Chair, IEEE Systems, Man, and Cybernetics 2019 (SMC 2019)

**SPECIAL SESSION ORGANIZING COMMITTEE MEMBERSHIP**

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

**TECHNICAL PROGRAM COMMITTEE MEMBERSHIP**

- IEEE SAMI, IEEE SACI, 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