

Curriculum Vitae

Name: Dániel Marcsa
Place of Birth: Keszthely
Date of Birth: 08. 08. 1984.
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Qualifications:

2011 Mechatronics Enginner (MSc) – Major in integrated mechatronics systems
(The grade of the diploma: excellent)
2009 Electrical Enginner (BSc) – Major in automation (The grade of the diploma:
excellent)
2008 Medium Level Language Exam in English
2004 Electrotechnical Technician (OKJ 52-5422-01)
2003 General Certificate of Education
2003 ECDL (European Computer Driving Licence)

Studies:

2011- „Széchenyi István” University, Győr –
Interdisciplinary Doctoral School of Engineering, Modelling and
Development of Infrastructural Systems (Ph.D. course)
2009-2011 „Széchenyi István” University, Győr –
Faculty of Mechatronics and Mechanical Structure (M.Sc. course)
2005-2009 „Széchenyi István” University, Győr –
Faculty of Electrical Engineering (B.Sc. course)
1999-2004 „Pattantyús Ábrahám Géza” Technical College, Győr – Faculty of
Electrotechnical Technician

Scientific works, awards:

2011- Domain decomposition methods in electromagnetic field simulations
2009-2011 Design and simulation of radial magnetic bearing
2008-2009 Analysis, modeling of rotating electrical machines by using the Finite Element
Method with Motion Voltage Term and Different Potential Formulations
Simulation of transformers by Finite Element Method with nonlinear material
2007-2008 Potential formulations investigation, simulation of magnetostatic and eddy
current fields

- 2011 XXX. National Scientific Student Conference (OTDK), Technician section, Baja, Hungary – OTDK Prize of the Section Committee „Computer-Aided Design and Analysis of Radial Magnetic Bearing” (in hungarian).
- 2010 Scientific & Art Student Conference (TMDK), 2010/2011, first semester, Győr – 1. prize with the paper „Simulation of Magnetic Bearing by Finite Element Method” (in hungarian).
- 2010 Scientific & Art Student Conference (TMDK), 2009/2010, second semester, Győr – 2. prize with the paper „Design and Simulation of Active Magnetic Bearing” (in hungarian).
- 2009 XXIX. National Scientific Student Conference (OTDK), Technician section, Miskolc, Hungary – 3. prize with the paper „The Design and Simulation of Rotating Electrical Machines by Finite Element Method” (in hungarian).
- 2008 Scientific & Art Student Conference (TMDK), 2009/2010, second semester, Győr – 2. prize with the paper „Analysis of Single- and Three-Phase Induction Machines ” (in hungarian).
- 2007 Scientific & Art Student Conference (TMDK), 2009/2010, first semester, Győr – 2. prize with the paper „Simulation of Static Magnetic and Eddy Current Fields by Finite Element Method” (in hungarian).

Experiences:

2012. aug – **„Széchenyi István” University,**
H-9024 Győr, Egyetem tér 1..
Sector Department of Automation
Position Assistant Lecturer
Main activities Electrical machines analysis and simulation
2011. may – 2011. sept. **„Széchenyi István” University,**
H-9024 Győr, Egyetem tér 1..
Sector Development
Position Developer engineer
Main activities Finite element design and simulation of a magnetizer for permanent magnet motors

2011. feb. – 2011. apr. **Siemens Transzformátor Kft.,**
H-1214 Budapest, II. Rákóczi Ferenc u. 189.
- Sector Research and Development
- Position Developer engineer
- Main activities Project manager of transformer cores and new core materials, computation method developer
2010. jun. – 2010. aug. **Radiofrequency Test Laboratory,**
H-9026 Győr, Egyetem tér 1.
- Sector Development, simulation
- Position Apprentice
- Main activities Analysis of static magnetic field
2008. aug. – 2009. jun. **FETI Kft.,**
H-1158 Budapest, Vasgolyó u. 2-4.
- Sector Development, simulation
- Position Developer engineer
- Main activities Simulation of wire shielding
2007. jan. – **Laboratory of Electromagnetic Field,**
H-9026 Győr, Egyetem tér 1.
- Sector Research, development
- Position Member
- Main activities Taking part in engineering projects
Solving problems about electromagnetic fields

Trips to abroad:

2009. febr. 23. – march 8. Hungarian-Romanian Bilateral Partnership: General Hysteresis Modelling and its Application in Finite Element Procedures. – Center for Applied Research in Physics and Advanced Technologies, Alexandru Ioan Cuza University, Iasi, Romania.
2008. nov. 2 - 23. Hungarian-Romanian Bilateral Partnership: General Hysteresis Modelling and its Application in Finite Element Procedures. – Center for Applied Research in Physics and Advanced Technologies, Alexandru Ioan Cuza University, Iasi, Romania.

Awards:

- 2010 „Best Presenter” in Information Technology Secssion of 6th International PhD & DLA Symposium with the presentation „Modeling of Radial Magnetic Bearing by Finite Element Method”.
- 2010 Fellowship granted by the Hungarian Republic for prominent academic and scientific work.
- 2009 Fellowship granted by the Hungarian Republic for prominent academic and scientific work.

Computer skills:

- User level Microsoft Windows, Office, LaTeX, Corel Draw, Matlab, COMSOL Multiphysics, FEMM, Scilab, Solid Works, Gmsh
- Basic level Abaqus, NX-Ideas, PRO-Engineer, Maple

Personal competences:

- Native language **Hungarian**
- Command of language **English** (comparative), **German** (starter)
- Driving licence Car driving licence, motorbike driving licence
- Range of interests Science, technology, sports, music