



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Dr. DUDÁS, László**
Address(es) Department of Information Engineering, University of Miskolc, 3515 Miskolc-Egyetemváros, Hungary
Telephone(s) +36 46 565111/2112 Mobile: +36 30 6675783
E-mail iitdl@uni-miskolc.hu
Nationality Hungarian
Date of birth 28.03.1957

Desired employment / Occupational field **Mechanical engineering, information technology and artificial intelligence, researches on geometrical aspects of gears connection**

Work experience

Dates	2008-
Occupation or position held	Head of Department
Main activities and responsibilities	Coordination of personal, scientific, financial duties, management of projects, contribution in groups of the Faculty of Mechanical Engineering and Informatics
Name and address of employer	Department of Information Engineering, University of Miskolc, Hungary
Type of business or sector	Higher Education
Dates	1996-
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching, scientific research, project management, scientific supervisor activity
Name and address of employer	Department of Information Engineering, University of Miskolc, Hungary
Type of business or sector	Higher Education
Dates	1994-1996
Occupation or position held	Senior Lecturer
Main activities and responsibilities	Teaching, scientific research
Name and address of employer	Department of Information Technology, University of Miskolc, Hungary
Type of business or sector	Higher Education
Dates	1992-1994
Occupation or position held	Teacher
Main activities and responsibilities	Teaching, scientific research
Name and address of employer	Áron Gábor Technical College, Miskolc, Hungary
Type of business or sector	Education
Dates	1991-1992 ; 1980-1988
Occupation or position held	Mechanical Engineer
Main activities and responsibilities	CNC programming, computer programming
Name and address of employer	Machine Factory DIGÉP, Miskolc, Hungary

Type of business or sector Industry
 Dates 1988-1991
 Occupation or position held Postgraduate Scholar
 Main activities and responsibilities Scientific research
 Name and address of employer Hungarian Academy of Sciences, Budapest, Hungary
 Type of business or sector Research

Education and training

Dates 1988-1991
 Title of qualification awarded Candidate of Engineering Sciences (PhD from 1996)
 Principal subjects/occupational skills covered Thesis Title: '*Resolution of Geometrical Problems of Contacting Surfaces Using the Reaching Model*'
 Name and type of organisation providing education and training University of Miskolc
 Level in national or international classification ISCED 6
 Dates 1975-1980
 Title of qualification awarded Mechanical Engineer
 Principal subjects/occupational skills covered Mechanical engineering knowledge, computer programming
 Name and type of organisation providing education and training Technical University of Heavy Industry, Miskolc
 Level in national or international classification ISCED 5A

Personal skills and competences

Mother tongue(s) **Hungarian**

Other language(s)

Self-assessment
European level ()*

Understanding

Speaking

Writing

Listening Reading Spoken interaction Spoken production

English

B1 Independent User B2 Independent User B1 Independent User B1 Independent User B2 Independent User

Russian

A2 Basic user A2 Basic user A2 Basic user A2 Basic user A2 Basic user

Social skills and competences Good communication and presentation skills gained in more than ten years teaching. Team spirit and team management obtained as member/leader of scientific projects and head of department.

Organisational skills and competences Leadership gained as head of department, systematic work.

Technical skills and competences Programming CNC machine tools, car assembly.

Computer skills and competences Perfect command of Windows Operating System and MS Office applications. Excellent programming knowledge (Pascal, C++, OpenGL). Some experience in Data Base and Website development. Excellent 3D programming capabilities. Knowledge of logical programming languages (PROLOG, LISP).

Artistic skills and competences Painting, writing poems.

Driving licence Category B.

Additional information

Award: "Signum Aureum Facultatis" medal of University of Miskolc for the scientific and educational work, 2003.

Main research fields: symbolic algebraic computation, pattern matching, computer graphics and modelling of the connection of conjugate surfaces.

Scientific and industrial projects:

- 2010-2011 TAMOP 4.1.2-08/1/A-2009-0001 project titled "Creation and realisation of on-line access of competence-based, complex digital educational materials on the areas connecting to up-to date material-, nano- and mechanical engineering technologies"
- 2009-2011 TAMOP 4.2.1-08/1-2008-0006 project titled "Development and operation of the technology and knowledge transfer centre of the University of Miskolc".
- 2009-2011 TAMOP 4.2.3-08/1-2008-0007 project titled "Appreciation and dissemination of scientific results"
- 2009-2010 R&D Project for Bosch-Rexroth Pneumatics Ltd, Eger, titled "3D simulation of a selected manufacturing cell"
- 2002-2005 OTKA 38288 research project titled "Development of spiroid drives having new geometry, elaboration of manufacturing geometry", subproject: "Undercut analysis of ZTA type worm gearings having circle arc in the axle plane"
- 1998-1999 OTKA T025542 research project titled "Improvement of the model of a 3D analysing tool capable for researches on the area of contact geometry"
- 1997-2000 MKM 1221/1997. project titled "Research of up-to date planning, supervisory and control methods of mechatronic systems", subproject titled "Development of an up-to date interactive design tool for modelling mating surfaces"
- 1998 OTKA 19093 research project, subproject titled "Development of a computer program for producing NC-program from numeric form of grinding wheel profile points for controlling a CNC-dresser"
- 1996-1998 PHARE HU-94.05 0101 L023/61. project titled "Enhancement of connection between education and economy"

Study trips:

- 2009 Cork, Ireland, COMPETT program, 3 days, member of delegation
- 2009 Wien, Austria, COMPETT program, 3 days, member of delegation
- 2006 Universitat Politecnica de Catalunya, Terassa, Barcelona 1 week, visiting professor, EU SOCRATES/ERASMUS program
- 2003 METU Ankara, Turkey, 1 week, leader of delegation
- 1996 METU Ankara, Turkey, 1 week, member of the bilateral cooperation group
- 1987 Deckel Milling Machine Factory, Munich, Germany, 2 weeks, professional visit
- 1986 Robot Factory, Stara Zagora, Bulgaria, 1 week, professional visit

PhD Thesis Supervision: Péter Stefán (2004)

Software products:

HELICAD computer program for determination of the grinding wheel profile.

Surface Constructor computer program for development and investigation of connecting kinematic surfaces.

Inventions: Hungarian Patent Office registration numbers: OTH 19089/1990.06.12.; OTH 14931/1991.06.21.

Memberships in Hungarian Scientific Associations:

- 2006- John von Neumann Computer Society, Robotics Professional Working Group
- 1998-2000 Scientific Society of Mechanical Engineering
- 1999- Member of the editorial board of the Publications of University of Miskolc, Mechanical Engineering Proceedings
- 1997- John von Neumann Computer Society, Artificial Intelligence Professional Working Group
- 1996-1999 Committee for Machine Structure, Hungarian Academy of Sciences
- 1994-1996 Committee for Machine Structure, Subcommittee for Drives-technics, Miskolc Regional Committee of Academy of Sciences

Referee position: Invited reviewer of Elsevier Computer-Aided Design Journal from 2008.

- Annexes** More than 60 papers published in scientific journals and conference proceedings. Two book chapters.
Personal webpage: <http://ait.iit.uni-miskolc.hu/~dudas/>
- Most important publications:**
- Dudás, L. Modelling and simulation of a novel worm gear drive having point-like contact
Proceedings of TMCE 2010 Symposium, April 12.16, 2010, Ancona, Italy, edited by I.Horváth, F. Mandorli and Z. Rusák. ISBN 978-90-5155-060-3 pp.685-698.
- Dudás, L. Developing a universal gearing design and gear manufacturing tool
Proceedings of TMCE Symposium, April 21.25, 2008, Izmir, Turkey, edited by I. Horváth and Z. Rusák. ISBN 978-90-5155-044-3 pp.1231-1245.
- Dudás, L. Algorithmic Improvements in Pattern Matching
International Review on Computers and Software (IRECOS) Vol. 2 n. 4 July 2007 pp. 331-341.
- Dudás, L. Possibilities of Exact Grinding of Conical and Globoid Worms
International Review of Mechanical Engineering (I.R.E.M.E.), ISSN 1970-8734 Vol. 1 n. 3 May 2007 pp. 200-207.
- Dudás, L. A Consistent Model for Generating Conjugate Surfaces and Determining All the Types of Local Undercuts and Global Cut. UMTIK'96 International Machine Design and Production Conference, Ankara 1996.Sept.11-13. pp.467-476.