

Curriculum Vitae

Personal Data

Surname	Bašić
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Date of Birth	January 14. 1962
Marital status	Married with tree children
Citizenship	Croatian

Academic Record

1996	Master of Electrical Engineering degree from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia.
1988	Bachelor of Science degree in Electrical Engineering from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia.

Employment History

2002 –	Electrical Drives specialist at Systec Automatizacija d.o.o Labin.
2002 – 2008.	Lecturer at the Faculty of Electrical Engineering (Department of Power Engineering and Electrical Machines).
1996 – 2002	Teaching assistant at the Faculty of Electrical Engineering (Department of Power Engineering and Electrical Machines).
1992 – 1996	Junior teaching assistant at the Faculty of Electrical Engineering (Department of Power Engineering and Electrical Machines).
1989 – 1992	Junior researcher at the Faculty of Electrical Engineering (Department of Power Engineering and Electrical Machines).
1988 – 1989	“Technoprojekt” company in Vinkovci, intern involved in the design of electronic devices.

Occupation

Employed in Systec System Technology which is partner of Danieli Automation. Have been involved in start-up of several rolling mills in steel processing industry like a specialist for commissioning variable speed drives.

Specialist for following converters:

Siemens drives: Simovert Masterdrives VC, Simovert Masterdrives MC, Simoreg DC Master, Simoreg CM, Micromaster 420/430/440;

ABB drives: DCS 500, DCS 600, ACS 600, ACS 800;

Baumüller drives: BUS 6 VC;

Allan-Bradly drives: PowerFlex 700.

Reference:

- US Steel, Košice, Slovakia,
- Allvac, Richburg SC, USA,
- SN Longos, Seixal, Portugal;
- Tisco, Thai Nguyen, Vietnam;
- Gerdau Ameristeel, Cartersville GA, USA,
- Halyvourgiki, Athens, Greece.
- Anon, A Coruna, Spain
- LME, Valenciennes, France;
- Andec, Gayaquil, Ecuador.

Projects

2001 Work on other team project for industry

F. Jović, S. Nikolovski, I. Bašić, *Replacement of Minimum Oil Circuit Breakers with Vacuum Circuit Breakers in the 6,3 kV Installation of TE-TO Osijek*, expert analysis.

1996 – 2001 Development of the laboratory for electrical machines at the Faculty of Electrical Engineering. Encompasses: purchase of measuring equipment, design of the electrical machines supplying panel, carrying out circuits for signal adjustment, development of drivers for measuring instruments and the software (in Visual Basic) for measuring data acquisition and processing (in Mathematica®).

1992 – 1996 Part-time courses and research study towards the Master of Electrical Engineering degree. The Master project involved the research of induction machine testing, data acquisition and virtual instruments. It was concerned with the automatic testing of an induction machine in laboratory conditions. This study and research was influenced to a great extent by the war conditions that affected the city of Osijek and the Faculty of Electrical Engineering.

1990 – 1995 “Automatization of the Electrical Drives”, project financed by the Ministry of Science and Technology, (principal investigator Zdravko Valter, PhD, University of Osijek).

1988 In the final year of the study have been involved in the project for development of the microprocessor control of a frequency converter.

Software projects

- Software for the classification process and enrolment of new students on the Faculty of the Electrical Engineering in Osijek.
- Software for the computerization of Student Service on Faculty of the Electrical Engineering in Osijek. Project involves investigation about requirements and manners of the computerization of student service, software development and testing, computer network configuration, maintenance, technical support and development.

Teaching Experience

2002 – 2008 Held a number of training courses for Danieli Automation about energy converters.

1989 – 2002 Involved in the teaching process of the following undergraduate courses at the Faculty of Electrical Engineering:

- Electrical Drives – lectures, auditory exercises;
- Electrical Machines – auditory and laboratory exercises;
- Transformers – laboratory exercises.

Also, planning, co-ordination and supervision of laboratory demonstrations for the same courses.

1990 – 2000 **Guest lecturers**

- Department of Mathematics at University of Osijek
- Teacher Training College in

2001 **Other teaching activities**

- Held a number of courses concerning Internet and web publishing (as an official lecturer of CARNet – Croatian Academic Network that organized the courses).

Publication

Theses

- “Automatic testing of an induction machine in laboratory conditions”, Master of Electrical Engineering dissertation, University of Zagreb, Croatia, 1996.

- “Microprocessor Control Unit for Frequency Converter”, Diploma paper, University of Zagreb, Croatia, 1988.

Papers Published in Croatian Journals

- I. Bašić, A. Včev, D. Lung: *Digitalno simuliranje električnog udara istosmjernog i izmjeničnog napona na impendancijskom modelu ljudskog tijela*, Medicinski vjesnik, 1991, Vol.1-2, str. 13-19.
- D. Lung, A. Včev, I. Bašić: *Digitalno simuliranje valnog oblika strujnog impulsa koji se javlja na srcu pri defibrilaciji*, Medicinski vjesnik, 1991, Vol.3-4, p. 285-290.

International Conference Papers

- D. Lung, I. Bašić: *Digital Simulating a Wave Shape of Current Impulse Appearing on the Heart During Defibrillation*, 13th Annual International Conference IEEE Engineering in Medicine and Biology Society, Orlando, Florida, USA, 1991, New Frontiers of Biomedical Engineering in Medicine and Biology Society, Vol.13, Part 2/5, p. 0753-0755.
- I. Bašić: *Computer Simulation of a Thyristor Rectifier*, Internationales wissenschaftliches Kolloquium, Bremen, 1993, Wissenschaft fuer die Praxis, p. 32-38
- R. Scitovski, D. Jukić, I. Bašić: *Application of the moving least squares method in surface generating*, 17th International Conference ITI '95, Pula, 1995, Proceedings of 17th International Conference ITI '95, p. 469-474.
- T. Marošević, I. Bašić: *Application of the least squares method in electrical drives testing*, International Conference on Operational Research, Rovinj, 1-3. 10. 1996, Proceedings of the International Conference on Operational Research KOI '96, p. 69-74.
- I. Bašić, D. Ban, I. Gašparac: *Automated testing of basic characteristics of induction motors*, The 9th International Conference Electrical Drives and Power Electronics, Dubrovnik, 9-11. 10. 1996, Proceedings of the 9th International Conference Electrical Drives and Power Electronics, p. 208-211.
- I. Bašić: *Mathematica® in Teaching Mathematics*, PrimMath[2001] – Mathematica® In Science, Technology and Education, Zagreb, September 27-28, 2001.

Croatian Conference Papers

- R. Scitovski, R. Galić, I. Kolund, I. Bašić, D. Jukić: *Procjena rasprostiranja slojeva tla po dubini sondažnog profila*, Konferencija iz operacijskih istraživanja, Rab, 1995, Zbornik radova KOI '95, str. 111-120.

Course Material

- I. Bašić: *Instructions for laboratory exercises in the course of Electrical Machines*.

Scientific Society

- The Institute of Electrical and Electronics Engineers, member since 1997.
- CIGRÉ Croatian Committee, member since 2002.