Curriculum vitae

Personal information

Surname/First name	**Čerkala Jakub, Ing.**
Address	Slnečná 2,08221, Veľký Šariš, Slovak Republic
Phone number	+421 55 602 4214
E-mail	jakub.cerkala@tuke.sk
Nationality	Slovak
Date of birth	4.2.1988
Gender	male

Employment / Field of interest

PhD student/ Cybernetics, control systems and automation
Database systems, (MSSql, Oracle),
Object-oriented programming C#,
Programming in Matlab/Simulink environment,
Robotics,
Experimental identification,
Hydraulic systems.

Education and training

From - to	September 2012 –
Title of qualification	University education - III. degree in cybernetics and information - control systems PhD.
Main subjects / occupational skills	**Dissertation thesis** Application of artificial intelligence methods in modeling and control of robotic systems **Specialized subjects:** Theoretical Foundations of Cybernetics, Information and Control Systems
Name and type of organization providing education and training	Technical University of Košice, Faculty of electrical engineering and informatics, Department of cybernetics and artificial intelligence, Letná 9, 04200 Košice

From - to	September 2010 – May 2012
Title of qualification	University education – master degree in cybernetics and information - control systems Engineer (with honors)
Main subjects / occupational skills	**Master thesis:** Application of Experimental Identification Results in Design of Control Algorithms for Model of Real Hydraulic System **Professional subjects including selectable:** Discrete systems, Optimal and adaptive systems, Computer vision, Differential equations and calculus of variations, Intelligent control nets, Distributed Control Systems, Control and Artificial Intelligence, Multi-criteria decisions, Robust control, Cybernetics, Decisions and complexity, Management Information Systems, Complex systems control, Philosophical Problems of Cybernetics and Artificial Intelligence, Team work
Name and type of organization providing education and training	Technical University of Košice, Faculty of electrical engineering and informatics, Department of cybernetics and artificial intelligence, Letná 9, 04200 Košice

From - to	September 2007 – June 2010
Title of qualification	University education – bachelor degree in cybernetics Bachelor (with honors)
Main subjects / occupational skills	**Bachelor thesis:** Application of System Identification Toolbox in experimental identification of linear dynamic systems **General education subjects:** Mathematical analysis, Introduction lo linear algebra, Physics **Professional subjects including selectable** Electrotechnics, Basics of automation control, Computers and Algorithms, Programming in C language, Object-oriented programming, Microcontrollers, Computer control, Technological process control, Nonlinear systems, Models and identification
Name and type of organization providing education and training	Technical University of Košice, Faculty of electrical engineering and informatics, Department of cybernetics and artificial intelligence, Letná 9, 04200 Košice

From - to	September 2003 – May 2007
Title of qualification	Vocational education (SOV): Elektrotechnik
Main subjects / occupational skills	**General education subjects:** Mathematics, Physics, Slovak language and literature, English language **Professional subjects including selectable** Automation technology, Computer science, Electrotechnical measurement, Electronics, High voltage devices, Telecommunications
Name and type of organization providing education and training	Secondary School of Electrical Engineering in Prešov Plzenská 1, 08001 Prešov

Personal skills and qualifications

Native language **Slovak**

Other languages

Self-assessment	**Comprehension**		**Speaking**		**Writing**
European level (*)	Listening	Reading	Interaction	Speech	
English language	B1 (Independent user)	B2 (Independent user)	B1 (Independent user)	B1 (Independent user I')	B2 (Independent user)

(*) The level of the Common European Reference Framework (CEF)

Social skills autonomy, flexibility, efforts to continuous improvement, responsibility

Organization skills teamwork – used in study

Computer skills
Excellent knowledge of Microsoft Office tools (Word, Excel, PowerPoint, Access)
Excellent knowledge of Windows operating system
Excellent knowledge of Matlab/Simulink simulation language
Excellent knowledge of programming and algorithms (C, C#)
Good knowledge of internet technologies (HTML, XML, ASP.NET)
Good knowledge of technology process control applications (RSLogix)
Good knowledge of visualization tools (InTouch)
Good knowledge of database applications (SQL – Oracle, MSSql)
Basic knowledge of programming in assembler programming language - microcontrollers I8051
Basic knowledge of 3D modeling applications (Google Sketchup)
Basic knowledge of UNIX type operating systems
Basic knowledge of Windows type server administration

Driving licenses groups A, B

Published literature

AED - Scientific papers in peer-reviewed scientific home proceedings:

ČERKALA, J. – JADLOVSKÁ A.: Experimentálna identifikácia nelineárneho dynamického systému pomocou IDENT Tool v prostredí Matlab. In: Electrical Engineering and Informatics: Proceeding of the Faculty of Electrical Engineering and Informatics of the Technical University of Kosice. 2012, ISSN 978-80-553-0460-1.

ČERKALA, J. – JADLOVSKÁ A.: Aplikácia System Identification Toolboxu v experimentálnej identifikácii lineárnych dynamických systémov. In: Electrical Engineering and Informatics: Proceeding of the Faculty of Electrical Engineering and Informatics of the Technical University of Kosice. 2010, s. 540-545. ISSN 978-80-553-0460-1.