Dusan Kostic

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Education:

University of Belgrade, Serbia **october 2009 - september 2013.**
Faculty of Electrical Engineering, Computer science department - GPA 8.82/10.00

Gimnasium Pirot, Pirot, Serbia **september 2005 - jun 2009.**

Scholarships and awards:

- Tigar corporation scholarship.
- Municipality of Pirot scholarship for best students from Pirot.
- third award at republic competition in mathematics for high school students, organized by Ministry of education, Republic of Serbia, may 2009.
- praise(fourth award) at republic competition in mathematics for high school students, organized by Ministry of education, Republic of Serbia, may 2007.
- best student of generation, Gimnasium Pirot jun 2009.

Projects:

- Implementation and analysis of RSA and ECIES crypto-systems. Project implemented in Java programming language. Bachelor thesis.
- Web application, part of faculty information system. Project implemented in Java Server Faces 2.0, with PrimeFaces components. Application optimized with AJAX where appropriate. For purpose of storing data relational MySQL database was created and used. Application also supported localization. Course Programming of internet applications.
- Compiler for Microjava programming language. Project implemented in Java programming language, using CUP specification and Flex tool for generating scanners. Course Compilers.
- ARM-based 32-bit pipelined processor, cache memory and RAM memory realized in FPGA technology. Project implemented in VHDL, synthesized in Quartus II 12.0, verified via test bench and Altera Modelsim tool. Course VLSI systems.
- Microprocessor system with 8086 processor, 8259 PIC, 8251 USART, 8255 PPI, 8254 PIT, keyboard and LED diodes. Components wired and simulated in ISIS Proteus software. Program written in C programming language. Course Microprocessor systems.
- Processor, memory and bus arbitrator. Operational unit with two internal buses, control unit in microprogram implementation with horizontal coding of control signals with two types of microinstructions. Architecture was defined by professor. Course Architecture and Organization of computers 2.
- Fully functional operating system kernel with basic functionalities. Project implemented in C++ programming language. Course Operating systems 1.
- File system with basic functionalities. Project implemented in C++ programming language. Course Operating systems 2.
- Emulator Just-In-Time for processor architecture given by professor. Project implemented in C programming language. Course System programming.

Skills and interests:

- Programming languages and concepts: Java, C, C++, C#, SQL, HTML, JavaScript, CSS, XML, JSP, JSF, AJAX, VHDL.
- In process of intensive learning: Python, PHP.

Seminars:

- 2009 - training for peer educator within Local Plan of Action for youth, organized by Municipality of Pirot.
- 2009 - summer camp organized by UNICEF, camp goals: acquisition of specific knowledge and skills needed for active participation of young people in solving problems which regards youth.

Work experience:

- Leader of LPA team during one year. Team successfully implemented few projects. Goals of implemented projects: involving and active participation of youth in process of decision-making within municipalties and state governments, promotion of healty lifestyles, promotion of tolerance and nonviolent communication, peer education. All projects were financed by Municipality of Pirot and private investors.

Languages

- Serbian, mother tongue
- English, excellent both written and spoken
- German, in process of learning