KIRILL BYKOV

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Profile

An Engineering student undertaking a (2 years) MSc in Embedded Computing Systems between the University of Southampton (ECS) and Kaiserslautern Technical University. Possessing wide experience in Nanoelectronics, System-on-Chip design and Digital Systems Design, I am seeking for an internship position for the summer break. Which can allow me to gain experience of industry in the UK. I am passionate about challenges, competition and learning, which makes me highly dedicated in my work. In addition to my study I spend a lot of time developing myself through traveling, reading and physical exercises.

Education

2017-19 **European Masters in Embedded Computing Systems (EMECS)**

2018-19 **Kaiserslautern University (Germany)**

2017-18 **University of Southampton (Electronics and Computer Science) (84%)**

Modules:
Secure Hardware Design (80%), Digital IC and System Design (84%), Digital System Design (86%), Nanoelectronic Devices (82%), Cryptography(83%), Embedded Processors Design(88%), Digital System Synthesis(89%)

Projects:
Digital SoC Design (ASIC) (80%), Embedded Processor Design (picoMIPS), Work with FPGA

2013-17 **St Petersburg State Electrotechnical University, Russia**

Bachelor degree: Electronics and Nanoelectronics (100% GPA)

Modules:
Circuit Engineering, Electronic Components Design, Solid State Electronics, Electrodynamics, Microwave Electronics, Nanoelectronics, Quantum Physics, Physics of Condensed Matter, Probability Theory, Mathematical Analysis

Thesis: Control System for MEMS Accelerometer
My internship of developing the MEMS system was followed by designing of a corresponding control system, which transformed into my thesis

Work Experience

2017 **Electrical Engineer Intern (3 month)**

Centre of Microtechnology and Verification (St Petersburg, Russia)

- Developing and verification of a Wireless MEMS Accelerometer
- Work was done at my department with a mentor
- During the work a number of tools were used, such as: COMSOL for simulation purposes, SolidWorks for printing the structure, Altium Designer for circuit design, and Python for output data analyses

2016 **Web-designer – part time (6 month)**

Deo-Studio (deostudio.com)

- Work in a small team
- Responsible for the back-end programming on Python (Django) and JavaScript and customer service
- Got the experience of working in a team and managing short term projects

Technical Skills

Hardware Description Language: SystemVerilog, SystemC
Programming Languages: Python, Embedded C, C, C++, JavaScript, HTML/HTML5, PHP, LaTeX
Simulation Environnements: MultiSim, Quartus, SosidWorks, COMSOL, Synopsys Sentaurus

Languages

English – Fluent, Russian – Native

Personal Achievements

2016 Publication in the journal - "Memristors and its applications"
2015 First place at XLIV-s All-Russian Open Competition in Analog Circuit Engineering

Interests

Sports In sport I like competition, so I prefer Swimming, Soccer, Amateur Chess (University team in 2016), Jogging (regular park runs), Table Tennis

Travel I enjoy exploring new places, asking questions and trying to understand things, that is why I love travelling in the first place. It enables me to take a look at things from the different perspectives of different people

Other I spend my spare time on developing myself by reading, dancing or just visiting a gym