

Kirill Bykov

HARDWARE ENGINEER

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Education

Kaiserslautern Technical University

Germany

MSC, EMBEDDED COMPUTING SYSTEMS, PART II

2018–2019

- SW (Assembly) and HW (VHDL) codesign of a distributed system
- Test Driven Development of a C++ library for ROBDD and state exploration. Performance optimization
- Implementation of a secure enclave for RISC-V architecture

University of Southampton (GPA – 84.0%)

United Kingdom

MSC, EMBEDDED COMPUTING SYSTEMS, PART I

2017–2018

- Digital SoC design using FPGA. Digital Signal Processing in a karaoke system
- Designing an application specific instruction set embedded processor (System Verilog), based on MIPS architecture
- Simulation, Synthesis and Layout of a cryptographic system

Saint Petersburg Electrotechnical University (GPA – 100.0%)

Russia

BSc, ELECTRONICS AND NANOELECTRONICS

2013–2017

- B.Sc. Thesis: Parameters and characteristics of a wireless MEMS passive vibro-accelerometer

Experience

ARM

Cambridge, United Kingdom

CONTENT CREATOR INTERN

june–august 2018

- Working in a big company. Collaborating between departments. Giving presentations to large groups of people
- Writing Embedded C for MCUs. Showcasing the capabilities
- Developing a software package for Automation. Using Python and LaTeX, JavaScript, HTML
- Participating in organisation of a Summer school. Delivering workshops, designing challenges

Saint Petersburg Electrotechnical University

Saint Petersburg, Russia

ELECTRICAL ENGINEER INTERN

march–may 2017

- Developing a MEMS vibro-accelerometer based on the oscillation circuit with variable conductivity. Was followed by a Bachelors Thesis devoted to the research of the device
- Calculation the parameters, simulation of the circuit (MultiSim), designing parts (SolidWorks) and assembling

Startup (Web-Studio)

Saint Petersburg, Russia

WEB-DESIGNER

march–august 2016

- Backend web-developer using Python (Django), PHP and JavaScript
- Was a part of a Small team, working on Short Term projects, under much stress, everybody had broad responsibilities. I got immense experience of working in stressful environment, quickly changing areas, communicating with clients

Skills

Programming	Python, Embedded C, C++, TCL, LaTeX, Shell Script (Long-time Linux user)
Hardware	FPGA, SystemVerilog, VHDL, SVA, Tidal, SystemC
Web-Development	JavaScript, PHP, HTML
Languages	English - fluent, German - A2, Russian - native, Kazakh - Basics

Extracurricular Activity

“Memristors and its applications”

Saint Petersburg, Russia

PAPER. YOUNG SCIENTISTS PAPER BOOK. PUBLISHING HOUSE - SAINT PETERSBURG ELECTROTECHNICAL UNIVERSITY

february 2016

XLIV-s All-Russian Open Competition in Fundamentals of Electrical Engineering

Moscow, Russia

FIRST PLACE

october 2015

Saint Petersburg Student Competition in Fundamentals of Electrical Engineering

Saint Petersburg, Russia

FIRST PLACE

april 2015