Andrey Nagornov

Personal info

Name: Andrey Nagornov
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Education

Peter the Great St. Petersburg Polytechnic University 2017-2019 (in progress)
(Master degree)
Institute of Computing and Control, Department of Computer Systems and Software Engineering
Peter the Great St. Petersburg Polytechnic University 2013-2017
(Bachelor degree)
Institute of Computing and Control, Department of Computer Systems and Software Engineering

Personal skills

Languages	Russian (native) English (Intermediate) Latvian (Intermediate)
Programming Languages	C/C++, Python, Assembly (8051, AVR), Verilog
Software	PyCharm, Clion, Matlab, Quartus II, Orcad, Step 7, IAR Embedded Workbench, TeXstudio

Major projects

Python 2017-2018
During university classes I have realized algorithms for the image processing: equalization, linear extension, filters. I participated in a research work that explored identification of text on products' labels.
I was also a part of team that realized a small interpretation tool.
Together with my group I got involved in a project ≪Intelligent FireAlarm system≫. My duties involved developing vizualization of data and development of evacuation path to exit.
Verilog 2017
During practical applications in the lab, I got familiriazed with a hardware description language.
Whilst working on the scientific project ≪FOK≫, I have realized drivers for DAC and ADC, that exchange data with a microcontroller on Wishbone. I also participated in research and testing of hardware part.

C/C++ 2016-17

As a coursework I have realized client-server application «Roulette».

Assembler 2016-17

During my Bachelor's degree work I developed a multi-task educational gadget based on the microcontroller Infineon 80C515. The key function of the developed gadget is audio output that is directly reflecting user's keyboard activities. For these purposes, the following things have been implemented (assembler): DAC driver, EEPROM driver, I2C protocol, audio playback, keyboard driver.

SQL 2016-2017

Using SQL-DDL I have realized a structure of musical database, for which, afterwards, I developed neccessary requests. I also possess a good understanding of ORM model.

Achievements

Conference ComCon-2017 2017

First degree diploma in section "Embedded Control Systems, Electronics and Robotics"