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## Summary

- Master of Science Degree in Computer Science and Engineering graduate has a strong foundation in the development of VLSI physical design tools, and in the development of CAD tools for digital IC and systems.
- Experienced in implementation modified algorithms for VLSI physical design automation steps, such as the placement and routing, and in optimizing software in C/C++.
- A responsible and reliable individual with a desire to grow professionally and learn new technology.

## Skills Summary

Skill	Tool (if applicable)	Avg. experience (years)
Programming Languages	C/C++, Python, SQL, Java, Perl, Tcl/Tk, Bash, PowerShell	5
Frameworks and Tools	Django, Bootstrap, Elasticsearch, Celery	1
Algorithms	For standard cell placement and global routing	3
Databases	SQLite, PostgreSQL	3
Web	HTML, CSS, XML, JavaScript	8
Platforms	Windows/Unix/Linux	8
Miscellaneous	Mercurial, Git, Eclipse, MS Visual Studio	5
System Administration	LAN/WAN/NOC Administration, Technical Support	5

## Education

<b>National Research University of Electronic Technology</b> , Moscow, Russia	September 2013 – June 2015
Master of Science Degree in Computer Science and Engineering	GPA: 3.93/4.00
<b>National Research University of Electronic Technology</b> , Moscow, Russia	September 2009 – July 2013
Bachelor of Science Degree in Electronics and microelectronics	GPA: 3.04/4.00

## Professional Experience

<b>Verifeed, LLC</b> , Washington DC	September 2016 – December 2016
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### Software Engineering Intern

- Software development and maintenance that is oriented on social intelligence analytics using Django, Bootstrap.
- Tools development and maintenance for generating reports using Django, PostgreSQL, Git.
- Agile Development and Test Driven Development.

<b>Company «Angstrom-Telecom»</b> , Moscow, Russia	September 2014 – May 2015
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### Junior Network Engineer

- Testing of embedded network devices (SoC RTL89xxC) based on OpenWrt and Octopus using Bash, iptables.
- Finding/Fixing bugs and maintaining code using C/C++, Git.
- Experience with RTL8188{C|CU|CUS}, RT8192{C|CU} wifi chips, RS-232 interface, U-Boot bootloader.
- Debricked routers using JTAG, Serial console.
- Fixing web interfaces using HTML, CSS, JavaScript.
- Writing documentation for network equipment using MS Office.

### **Technical Specialist**

- Support for local office network in working condition, setting of office software and equipment.
- Configuration and maintenance of servers based on Windows and \*nix, and other network equipment.
- Experience of using RS-232, RS-485 communications (corresponding protocols) for debugging (via serial console), debrick and firmware replacement of network devices.
- Installation and maintenance of access control system Apollo (running APACS). Firmware replacement, configuration, and interaction of Apollo's controllers.
- Configuration and maintenance of software (asterisk) and hardware PBX.

### **Projects**

#### **Tetris algorithm**

April 2015 – May 2015

Implementation Tetris algorithm for legalization of standard cell placement.

Class: Algorithms for Analysis & Optimization of Very-Large-Scale Integration & Systems on a Chip.

Used: C/C++, STL, GLUT.

#### **Kernighan-Lin algorithm**

March 2015 – April 2015

Implementation Kernighan-Lin Algorithm for circuit partitioning.

Class: Algorithms for Analysis & Optimization of Very-Large-Scale Integration & Systems on a Chip.

Used: C/C++, STL.

#### **PlacerSA**

November 2014 – May 2015

Placer for standard cell placement (global & detailed) based on modified algorithm “simulated annealing” for VLSI and FPGA. Used: C/C++, STL, GLUT, Batch scripting.