



Daniil Budanov US Citizen

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Skills

- Experience with SystemVerilog, C, Python, Java, MATLAB, C++, EagleCAD
- Utilized MRAA/UPM, mbed, OpenCV, Theano, GNU Radio, and Altera tools
- Fluent in Russian and English
- Technical leadership experience
- Technical research and presentation skills
- Experienced with laboratory test equipment

Employment History

Intel Corporation / Software Engineering Intern

June 2017 - August 2017, HILLSBORO, OR

Supported Intel's MRAA and UPM low-level I/O and sensor libraries. Developed soft IP and hardware abstraction libraries to ease software developer use of Intel SoC and FPGA platforms. Built demo to showcase benefits of SoCs in industrial hardware/software development.

May 2016 - August 2016, HILLSBORO, OR

Built computer vision applications on Intel's IoT hardware for security applications in connected cities and created demo and workshop content to engage computer vision developers in IoT.

Georgia Tech Research Institute / Engineering Co-op

August 2016 - December 2016, Atlanta, GA

Worked in the **Information and Communications Laboratory**; Deployed software defined radio projects involving filter implementation in Verilog, automatic modulation recognition using machine learning techniques, and testbed construction for modeling radio infrastructures.

Opportunity Research Scholars / Undergraduate Researcher

August 2017 - Present, Atlanta, GA

Designs and develops the Mini AWESOME ELF/VLF Receiver software defined radio based on an Intel SoC.

January 2016 - April 2016, Atlanta, GA

Studied and modeled contemporary embedded systems for deployment in wireless sensor networks focusing on ambient energy harvesting and ultra-low-power operation.

Education

Georgia Institute of Technology / B.Sc. in Computer Engineering

August 2015 - Present, Atlanta, GA | Expected Graduation Spring 2019

GPA: 3.60 / 4.0

Technical Activities

RoboJackets / Vice President

September 2015 - Present, Atlanta, GA

Performs administrative duties for Georgia Tech's collegiate competitive robotics organization.

Intelligent Ground Vehicle Competition / Electrical Subteam Lead

September 2015 - May 2017

Led team that maintains and deploys power and embedded systems for a 300-lb autonomous vehicle.

Electrical Training / Team Lead

September 2016 - December 2016

Developed curriculum and managed team that guided incoming members through designing, constructing, and programming an electrical system.

RoboCup / Electrical Subteam

September 2015 - Present

Develops embedded electronics for autonomous soccer-playing robots and assists incoming members with introductory electronics projects.

GT HyperJackets / Electronics Lead

October 2017 - Present

Leads team responsible for the design and construction of electronics and software systems for Georgia Tech's entry into the SpaceX HyperLoop competition.