



## Daniil Budanov

US Citizen  
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### Objective

To obtain an internship involving digital design, DSP, or embedded systems for Summer 2018.

### Skills

- Experience with Python, C, Java, MATLAB, Simulink, Verilog, 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  
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.

**Major League Hacking**

September 2015 - PRESENT

Attends hackathons and builds projects from new technologies in time-constrained environments.