DANIEL SONG

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https://github.com/1nkling

EXPERIENCE

[AUGUST 2017] – [PRESENT]

SOFTWARE ENGINEER, MIT LINCOLN LABORATORIES

Implemented/Optimized image processing algorithms (NUC, CFAR) on Jetson TX1/TX2 boards in CUDA/C++ for an autonomous closed-loop CubeSat optical sensor system.

[JUNE 2017] – [AUGUST 2017]

APPLICATIONS ENGINEERING INTERN, SILICON LABS

Created sample applications in C to demonstrate the functionality of proprietary radio boards using Zigbee/Thread protocols to potential customers. Currently in use by Ring, Lutron and more.

EDUCATION

[AUGUST 2014 - PRESENT]

B.S. ELECTRICAL AND COMPUTER ENGINEERING (ECE),
MINOR IN COMPUTER SCIENCE (CS)

Worcester Polytechnic Institute (WPI), Worcester, MA. GPA 3.77, graduating on May 2018
CS Coursework: Introduction to Program Design, Object-Oriented Design Concepts, Systems Programming Concepts, Machine Org. & Assembly, Algorithms
TBC Spring 2018: Database Systems I&II, Artificial Intelligence, Computer Networks
ECE Coursework: Digital Circuit Design, Digital System Design with FPGAs, Embedded Computing in Engineering Design, Real Time Embedded Systems, Continuous/Discrete Time Analysis

SKILLS

- **Programming Languages**: Racket, Java, C, C++, CUDA, CSS, HTML, XML
- **Communication Protocols:** Zigbee, Thread
- **Computer Skills**: Android Studios, Eclipse, GitHub, Git Bash, cmd, Terminal, PuTTY, Sublime Text, EMACS, MultiSim, MATLAB, Verilog

PROJECTS

JANE, HACK@WPI, JANUARY 2017

Created an interactive Facebook bot using Python that could get weather info, provide images of specific objects, translate between several languages, and much more.

SUSTAIN, WPI IQ PROJECT, FALL 2016

Created an Android application that uses responses to dynamically generated questions to determine an individual's level of environmental sustainability and recommend improvements.