

STEFAN GVOZDENOVIC

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EDUCATION

Boston University, Boston, MA

Aug 2018 - Present

Master in Electrical and Computer Engineering

Worcester Polytechnic Institute (WPI), Worcester, MA

Aug 2012 - May 2015

Bachelor of Electrical and Computer Engineering

Overall Percentage: 3.9/4.0

WORK EXPERIENCE

Radio Software Engineer, Silicon Labs

Jan 2016 - June 2018

Maintained radio abstraction library in C for 802.15.4 and Bluetooth LE PHY layer

Automated interframe spacing measurements for Bluetooth LE, Used multiprotocol library;

Demo Direction-of-Arrival feature; Bring-up 90nm and 40nm EFR32MGXX SoC

Software Engineer, Analog Devices

June - Dec 2015

Developed tests for SC584 SoCs peripherals CAN, Linkport, Ethernet, USB, DDR3

Research Assistant, WPI

Sept 2014 - May 2015

Implemented timestamp-free network synchronization on TMS320C6713 DSP board

Product Engineer, Analog Devices

May - Aug 2014

Characterized harmonic distortion, open-loop gain, bias current of ADA4805 op-amp

Teacher Assistant, WPI

Jan - May 2014

Debugged real-time C written on MSP430F5529 interfacing SPI, CAN, I2C, UART

Research Assistant, WPI

Sept - Dec 2012

Programmed proportional-integral-derivative speed controller on ATMEGA328 controller

PROJECTS

Major Qualifying Project: Software Defined Radio Platform, WPI

Sept 2014 - Apr 2015

Designed a single-board computer with Xilinx Zynq 7030 SoC and AD9361 transceiver

Real-Time Digital System Processing, WPI

Oct - Dec 2013

Implemented FIR and IIR adaptive filters for audio noise cancellation

Electrical and Computer Engineering Design, WPI

Mar - May 2013

Designed schematic and PCB for data logger. Soldered packages: QFN, 48-LQFP, 0603

Programmed the serial peripheral interface between sensor ADT7310 and STM32f051

Real-Time Embedded Systems, WPI

Oct - Dec 2012

Programmed one channel oscilloscope on OLED display using LM3S8962 controller

Programmed spectrum analyzer by performing Fast Fourier Transform on LM3S8962

SKILLS

Software: C/C++, MATLAB, Java, Eagle, Linux, Verilog, Python, x86 assembly

Hardware: MSP430, Atmega32, ARM, Logic analyzer, Oscilloscope, 3D printer

Foreign Languages: Native Serbian, Advanced German, Basic Russian

EXTRA-CIRRUCULAR

Open Water Scuba Diving certificate, Boston, MA

Nov 2018

Cape Cod Marathon 2013, Falmouth, MA

Oct 2013

Volunteer at Arduino booth at Maker Faire , NY, NY

Sept 2013

International Physics Olympiads (IPhO), Tallinn, Estonia

July 2012