STEFAN GVOZDENOVIC
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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA — May 2015
Bachelor of Science, Electrical and Computer Engineering — GPA: 3.9/4.0
Related coursework: Real-Time DSP, Real-Time Embedded Systems, Advanced Digital System Design with FPGAs, Analog Integrated Circuit Design, ECE and RF IC Design, Microelectronic Circuits, Operating Systems, Assembly, Continuous and Digital-Time Signals and Systems

RELATED EXPERIENCE

Radio Software Engineer, Silicon Labs — Jan 2016 - Present
- Developed radio abstraction library in C for 802.15.4 and Bluetooth LE PHY layer
- Wrote multiprotocol library; Automated interframe spacing measurements for Bluetooth LE
- Demo Direction-of-Arrival feature; Help 90nm and 40nm EFR32MGXX SoC bring-up

Software Engineer, Analog Devices — June - Dec 2015
- Developed tests for SC584 SoC's 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: MATLAB, C/C++, Java, Multisim, Eagle, Linux, Verilog, Python, Eclipse, CCS, x86 assembly
Hardware: MSP430, Atmega32, ARM, Logic analyzer, Oscilloscope, 3D printer
Foreign Languages: Native Serbian, Advanced German

ACTIVITIES

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

AWARDS

Charles O. Thompson award, WPI — Sept 2012 - May 2015
Dean's list, WPI — Sept 2012 - May 2015