

William A. Martens

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Work Experience

2016 – 2017 Research Assistant, University at Buffalo

- Designed, implemented and maintained custom hardware
- Hardware based on the ESP8266 utilizing RFID technology, coded mainly in C
- Created and presented a research poster for the 2016 ASEE Conference

2017 – 2019 IT Support Specialist, IVR Tech. Group

- Level 1, in-building support for a local health insurance vendor with 50+ employees
- Responsible for maintaining local AD/Exchange servers, repairing and maintaining all company-issued laptops and cell phones
- Scripted many basic reporting and maintenance tasks in Python

2019 – 2020 Associate Software Engineer, ATTO Tech.

- Designed and maintained embedded Linux drivers for Ethernet storage controllers.
- Designed Python-based tools to debug FPGA integration and IPv6 extension header issues
- Rebuilt Python-based configuration tool for the company's storage controllers

Projects

2016 Ms Q*Bert

- Worked on a two man team to code a clone of the arcade game "Q*Bert"
- Coded in bare ARMv7 assembly, complete with color graphics

2017 Teddy Bear Talker

- Worked on a four man team to design and build a rugged teddy bear to talk
- on behalf of a young girl
- Hardware based on the Raspberry Pi Zero W, utilizing flex sensors and an attached RTC module
- Case designed in OpenSCAD, flex sensor polling written in Python

2017 Mini Tag Writer

- Rewrote the tag generation program for RadioShack
- Script processes Excel files using several Python libraries and generates standard and sale tags for all RadioShack merchandise

Education

University at Buffalo
(2013 – 2017)
BS Computer Engineering

Skills

C/C++
GDB
Assembly(MIPS & ARM)
Python
Verilog
MATLAB
OpenSCAD
Microcontroller Programming
Leadership & Mentoring

Volunteer Work

Taught various STEM outreach events at Alden Primary and Intermediate Schools

Participated in various engineering outreach events at the University at Buffalo

Held multiple circuitry and drone building classes at RadioShack