# AARON C. YOON

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#### **EMPLOYMENT**

## **Product Support Engineer II,**

#### **dSPACE Inc**

May 2019 - Jun 2019

- Test Automation via Python 2.7/3.6 + ASAM XIL API (MAPort and EESPort)
- Innovate and expand upon department processes to improve efficiencies
- Worked closely with the Paderborn, Germany-based development teams resolve software bugs and improve software experience.
- Support sales account managers by providing product knowledge
- Point of contact for resolving critical issues.
- Same duties for level 1 below.

https://www.dspace.com/en/inc/home.cfm

## **Product Support Engineer**

#### dSPACE Inc

June 2016 - May 2019

- Supported industry engineers in the automotive, aerospace, academic, industrial and medical industries with their utilization of dSPACE embedded application development tools, validation and automation software, and real-time simulators.
- Utilized MATLAB / Simulink to create applications involving electric drive (3 phase PWM), RS232/422/485 serial communication, various flavors of CAN, internal combustion engine sim, ethernet UDP IP and TCP IP)
- Responsible for setting up demos at tech expos and providing product knowledge to potential customers

#### **Associate Software Test Engineer**

#### Harman International

August 2015 – June 2016

- Performed software validation and verification for infotainment units (Harley Davidson/GM/Subaru/Toyota/Scion)
- Bug discovery and issue logging
- In-vehicle field testing
- Bluetooth/Wi-Fi connectivity, device interoperability, and application testing (Bluetooth sniffing, CAN sniffing, system log collection, vehicle simulation)
- Wrote test automation scripts for the in-house automation framework (C#)

https://www.harman.com/

## Student researcher

#### **Central Michigan University**

Summer 2014

- Researched 2 Photon Polymerization using long wavelength EMWs.
- Hacked together 2-D laser engraver out of DVD-R/W drives and wood. Motor stages were driven by an Arduino Mega 2560. Control code was programmed in C.
- Lead a team of STEM educators to engage in acts of engineering

Languages and Technologies: Years of Experience		
C / C++: 3 years	Java: 3 years	C#: 2 year
SQL: < 1 year	Python 2.7/3.6: 4 years	Visual C# Full Stack
Visual Studio: 2 years	JavaScript: 1 year	HTML / CSS: < 1
Eclipse IDE: 4 years	Android Studio: < 1 year	Linux / Unix: 1 year
FPGA / VHDL: < 1 year	CAD: < 1 year	

## **EDUCATION**

Mt. Pleasant, MI

#### **Central Michigan University**

**September 2012 - May 2015** 

Bachelors of Science in Computer Engineering, May 2015.

## **Undergraduate Coursework**

Embedded systems, Object-Oriented Design, UML, VLSI, VHDL and Verilog FPGA programming, microcontrollers, circuit analysis, microelectronics, advanced data structures, algorithms, fluid dynamics, material science, assembly programming (Motorola 68HC11), Photonics

## **Projects**

- **iOS mobile application:** Web view to interface with music application running on a custom-made portable device.
- Arduino-based laser engraver made from scrap DVD drives: Used to study 2-photon polymerization in chemical compound under long wavelength EMWs (see LinkedIn for pictures)
- Drone delivery system: hand gesture-controlled driven by an Intel RealSense camera

#### **ADDITIONAL EXPERIENCE AND AWARDS**

- ★ Winner of Grizhacks 2016: Took first place in Oakland University Grizhacks hackathon. I developed mobile applications on iPhone and Android which used a web view to interface with a website running on portable mini-music player my team designed (<a href="http://grizzhacks.com/">http://grizzhacks.com/</a>)
- ★ Vice President of IEEE club: Central Michigan University 2013-2015