Zach Hannum

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EDUCATION

Bachelor of Science, Computer Engineering
Bachelor of Science, Electrical Engineering
North Carolina State University, May 2017
GPA 3.6

EXPERIENCE

Kast Clothing August 2016 - Present
Co-Founder

- Co-founded Kast Clothing, using technology to provide better fitting clothes online
- Created custom patterns and tested fit with real-time physics simulations
- Funded by NC State's Entrepreneurship Initiative Fellows program
- Entered Lulu eGames, took 1st place, winning $500 in the fan favorite Built on Cloud video
- Participated in the Andrew's Launch Accelerator Program during Summer 2017

Best in the Verse Audio May 2014 - Present
Founder

- Develop 3D printed custom in-ear monitors (earphones)
- Manufacture custom cables for audiophile headphones
- Increase yearly revenue 62% in 2017 with $0 attributed to marketing
- Retain 9.76% repeat customer rate in 2017
- Ship to over 40 different countries worldwide

PROJECTS

OoOE Superscalar Processor Simulator Fall 2016
North Carolina State University — Advanced Microprocessor Design (ECE 463)

- Implemented a dynamic out-of-order superscalar processor in C.
- Simulated N-width instruction life cycle including fetch, decode, issue, execute, writeback, and retire stages
- Included prefetching and instruction cache

Autonomous Remote Control Car Spring 2016
North Carolina State University — Intro to Embedded Systems (ECE 306)

- Coded remote control and line-following behavior in IAR Embedded Workbench (C)
- 3D-Printed parts to improve black line tracking efficiency.
- Built Android control app in Android Studio (Java)

Audibooks Fall 2015 - Fall 2016
Android audiobook application

- Built completely in Android Studio
- Implemented services, layouts, custom ArrayLists, SQLite Databases, JSON Queries

SKILLS

Languages & Software: C, Java, HTML, CSS, XML, LaTeX, Android Studio, Eclipse, Matlab, Github, Arduino IDE, SQLite, IAR Embedded Workbench, Keil uVision5, Kicad/Eagle, Fusion360
Technical Skills: PCB soldering, breadboard circuit design, building PC's, building and operating FDM and SLA 3D Printers