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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
- Manage website, generating an average of 5,600 visits per month
- Handle customer service, assist clients with questions, special requests, etc.
- Develop new products such as Custom In Ear Monitors and mic/volume Controls

## **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