

Erik Gustafson

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Education

The Ohio State University, Columbus, OH
B.S. Electrical and Computer Engineering

Graduation: May 2022
GPA: 3.88 / 4.00

Work Experience

Texas Instruments

Santa Clara, CA

Product Engineering Intern

June 2021 – August 2021

- Developed an application that automates device characterization given manufacturing process data
 - Reduces the time it takes to characterize a device from three weeks to three hours
- Created a script to automatically generate configuration files required for the die packaging process
 - Automates a high-risk task where human error could result in a several week delay
- Designed a tool to visualize the correlation of data collected at different points during manufacturing

The Ohio State University

Columbus, OH

Undergraduate Research Assistant

August 2020 – May 2021

- Improved the bitrate of an android acoustic communication library from 60 bits/s to 150 bits/s
- Created a media access control layer for the library, allowing many devices to split the usable spectrum
- Developed a testing procedure, android application, and webserver to automate data collection
- Wrote a technical paper about the developed protocol and analysis of collected data

PNC Financial Services

Pittsburgh, PA

Undergraduate Software Security Intern

June 2020 – August 2020

- Created a web-app that parses Microsoft Threat modeling files into risk analysis tool SDElements
 - Automates a 2-hour process, saving PNC 200 hours annually while increasing security

Kranze Technology Solutions

Prospect Heights, IL

Android Developer

June 2018 – June 2020

- Developed an inventory management application that allowed for group modification of a database
 - Organized company assets by creating an interface to a centralized database

Activities

Theta Tau Professional Engineering Fraternity

Columbus, OH

The Ohio State University

May 2019 – May 2022

- Volunteered at service and professional development events both on and off campus
- Managed a bot that automated several bookkeeping tasks and calendar events

Code that Cares

The Ohio State University, Columbus, OH

Volunteer Android Developer

December 2018 – March 2020

- Worked with a team of students to develop mobile applications for charitable causes in Columbus
- Trained new members in the android framework and version control tools

Boy Scouts of America

Troop 56, Saint Charles, IL

Eagle Scout

November 2017 – Present

- Designed, built, and painted dog agility training equipment for the Anderson Animal Shelter
- Managed a project encompassing hundreds of volunteer hours and hundreds of dollars in funds