

# Erik Gustafson

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## Education

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

**Graduation: May 2022**  
**GPA: 3.88 / 4.00**

## Work Experience

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### **Texas Instruments**

**Santa Clara, CA**

*Product Engineering Intern*

*June 2021 – August 2021*

- Developed an application that automates device characterization given manufacturing process data, reducing 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, automating 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
- Documented the protocol in a technical report including an analysis of the data collected

### **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, automating a 2-hour process and saving PNC 200 hours annually while increasing security
- Coded an app that allows users to split the cost of a reoccurring bill, which won the 2019 PNC codefest

### **Kranze Technology Solutions**

**Prospect Heights, IL**

*Android Developer*

*June 2018 – June 2020*

- Developed an inventory management application that allows for group modification of a database
- Maintained a series of android applications by fixing bugs and adding new features

## Activities

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### **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
- Created a GroupMe bot to automate 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