

# Joseph P. E. Gabel

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## Objective

Add value, as an Intern, to a work effort or team, while gaining experience and knowledge in the field of Electrical Engineering with a focus on circuit technology, signal and information processing, and product development.

## Education

### Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Electrical and Electronics Engineering, Minor in Spanish GPA 3.92 *Expected graduation May 2025*

## Skills

**Programming:** Java, HTML, CSS, Python, Arduino, C, MIPS Assembly

**Platforms:** Microsoft, OSX

**Hardware:** Arduino, Raspberry PI, Oscilloscope, FPGA's PCB Fabrication (LPKF Protomat, Protolaser)

**Software:** Betaflight, Arduino IDE, MS Suite, Adobe Suite, G Suite, Aurora Solar, MATLAB, Spotfire

**Communication:** Have presented, and am comfortable, presenting to audiences in excess of 500 people.

**Languages:** Spanish (Advanced – studied in Spain), English (Native)

## Experience

### Texas Instruments, Dallas TX (Product Engineering Intern)

*June 2023-August 2023*

*Richardson Semiconductor Fab Facility*

- Through in-depth analysis, test data extraction, and wafermap review; improved yield performance of products to ensure customer satisfaction, maintain low cost, and increase profit margins on analog chip devices.
- In an effort to determine the cause of edge loss on wafers; conducted component and layout analysis on a large number of devices in production. Worked with multiple modules to gather data and develop a plan of action. Presented findings and possible actions to multiple teams and upper management.

### Brookhaven National Laboratory (BNL), Brookhaven NY (Mini Semester Program)

*January 2023*

- A selective program hosted by BNL where interdisciplinary students of diverse and underrepresented backgrounds around the country come to learn and apply engineering concepts such as Biot-Savart, Ohms Law, Fourier Synthesis and more. Culminating in a presentation in front of BNL staff on a specific concept.
- Explored the BNL campus and facilities learning about their fields of research and opportunities, met with BNL staff in seminars based around their research with opportunities to take part in their research over the summer.

## Projects

### Web Crawler

*June 2022-August 2022*

- Lead an interdisciplinary effort to populate missing customer data within a Law Firms Attorney Information system (AIM). Worked with Law Firm Management, Operations, and IT department to create a web crawler using the Selenium extension for Python to find missing address data for over 15,000 records spanning in excess of 3000 clients. Which was utilized to notify the clients that they may have been compromised by a cyber-attack.

## Leadership

### Team Leader - District Solar Cup | Atlanta, GA

*September 2021-May 2022*

- Coordinated and assigned work with an interdisciplinary team, focused on creating a development plan detailing all codes for and policies for a PV system in Columbus County, Ohio. As well as lead a Distribution Impact Summary for a PV and Floatovoltaics system in Lake Nona, Florida to determine the threshold of interconnection points and the need for energy storage systems and surge protection. Presented our work to the DOE and received an honorable mention.

### Sustainability and Infrastructure Committee | Atlanta, GA

*January 2022-May 2022*

- Worked with the Student Government Association and Undergraduate House of Representatives, to promote sustainable policies and improve campus Infrastructure and Sustainability efforts.
- Planned a campus wide Earth week, in collaboration with various sustainability organizations on campus, promoting campus recycling programs and raising awareness, hosted events in excess of 100 participants.