

# MAX GINSBERG

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## EDUCATION

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University of Southern California, *Los Angeles, CA*

**Expected Dec 2022**

B.S. Biomedical Engineering (Electrical), Minor Entrepreneurship

**GPA: 3.5**

## EXPERIENCE

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**Data Science and Clinical Programming Intern**, Edwards Lifesciences – Irvine, CA **May – Aug 2021**

- Developed a modular, user-friendly data cleaning and dashboard visualization tool to view live data in any ongoing or finished data collection trial using python and html.
- Discovered new features and revealed biases in current algorithm development by applying machine learning into dashboard and extracting best collected features for disease classification.

**Director of Events**, USC Makers – Los Angeles, CA **Aug 2019 – Present**

- Led club to increase social engagement by 300%, project scope by 200%, and budget by 150%.
- Awarded \$3.5k from Microsoft after Spring Showcase 2021, the first corporate sponsor in the club's history.
- Took personal initiative and joined Executive Board within 1 month of joining the club.

**Product Assurance Engineer**, Axonics Modulation Technologies – Irvine, CA **Aug - Dec 2020**

- Soldered, assembled, and modified PCB's with the electrical team to test individual device features.
- Ensured accurate stimulation amperages, pulse widths, frequencies and resistances of Implantable and External Pulse Generators using oscilloscopes, multimeters and other custom circuitry to submit to the FDA.

**Instructor**, Planet Bravo Summer Camp – Beverly Hills, CA **May 2016 – Aug 2019**

- Taught 100+ students Java, Fusion360, 3D printing, Unreal Engine, Unity, and Scratch.
- Debugged student coding errors and worked with them individually to better understand computer software.

## AWARDS & PROJECTS

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**Apollo**, DrChrono's Virtual Healthcare Hackathon 2021, *2<sup>nd</sup> Prize* **Jan 2021**

- Created mobile and web apps using Javascript and CSS for patients to send their Apple Watch data to doctors.
- Visualized the Apple Health data into interactive graphs of users' steps, heart rate, blood pressure, blood glucose, and sleep with a selectable range of calendar dates.
- Recognized for the *Doctor's Choice* award out of over 500 participants.

**USC Makers Spring Showcase 2021** **Apr - May 2021**

- Managed 20+ club members to livestream a project showcase for 300+ live virtual audience.
- Animated graphics, rigorously tested technology, and created a professional image for the young club.

**Circadian Rhythm Mouse Imaging Project** **Nov - Dec 2019**

- Analyzed an open-source dataset with Python to prove the circadian rhythm of a mouse brain to be 24 hours.
- Used Bokeh and Bebi103 libraries to calculate intensity values of the fluorescent protein Venus in the SCN over time, defined in user-chosen ROIs.

**Aerolyzer**, Associated Students of Biomedical Engineering Makeathon, *Most Innovative* **Feb 2021**

- Wired and coded an arduino + ultrasonic sensor to detect oxygen concentration in the air.
- Crafted a business plan to manufacture and ship aerolyzers to low resource communities globally for cheap oxygen analysis in the midst of the COVID-19 pandemic.

**Pass the Butter Robot** **Jan – May 2021**

- Created and fabricated a robot inspired by Rick and Morty to pass a butter tray across a table.
- Designed a moving head + arm mechanism and organized the physical layout of the robot prior to assembly.

## SKILLS

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- Python, C++, MATLAB, Excel, Java, Javascript, Fusion360, 3D Printing, Arduino, Soldering, Entrepreneurship
- Bilingual: English (native), Spanish (professional) — Know the best taco stands and ramen spots in Los Angeles