

# 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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**Incoming Biomedical Engineering Intern**, Edwards Lifesciences – Irvine, CA

**May 2021**

**Product Assurance Engineer**, Axonics Modulation Technologies – Irvine, CA

**Aug - Dec 2020**

- Validated the newest software for the Sacral Neuromodulation Clinician Programmer.
- Ensured accurate stimulation amperages, pulse widths, frequencies and resistances of Implantable and External Pulse Generators using oscilloscopes, multimeters and other custom circuitry.
- Soldered, assembled, and modified PCB's with the electrical team to test individual device features.

**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.
- Manipulated the Apple Health data to create 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.

**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.

**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.

**Smart Lock**

**Aug-Dec 2020**

- Created an IoT deadbolt lock controlled by your smartphone or any other internet connected device.
- Designed the mechanical aspect of the lock and fully assembled the electronics in cohesion with the mechanics.

**Therabox**, Associated Students of Biomedical Engineering Makeathon, *4<sup>th</sup> Prize*

**Feb 2020**

- Constructed a therapeutic "puzzle box" for hemipelagic stroke patients struggling from muscular dystrophy.
- Fabricated the box in 36 hours using Fusion360, laser cutters, and bandsaws.

## LEADERSHIP & INVOLVEMENT

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**Director of Events**, USC Makers

**Aug 2019 – Present**

- Increased attendance at club functions by 300% through efficient planning and creative advertisement.
- Organized a 200+ person online project showcase featuring students, professors and industry professionals in EE.

**Mentor**, Associated Students of Biomedical Engineering

**Aug 2018 – Present**

## SKILLS

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