

Albert K. You

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EDUCATION

PHD BIOENGINEERING

SEP 2015 – MAY 2020

UC Berkeley (joint with UCSF)

NSF Graduate Research Fellow

BS BIOMEDICAL ENGINEERING

SEP 2011 – MAY 2015

University of Minnesota - Twin Cities

Minor in Management

EXPERIENCE

IOTA BIOSCIENCES; ALAMEDA, CA

NOV 2020 – NOV 2023

Engineering Manager - Research & Development | Nov 2022 – Nov 2023

- Led a team of 8 engineers spanning EE, CS, DSP, ME, and BME disciplines working on Class III neuromodulation devices
- Created projects leveraging individuals' strengths while offering opportunities for growth in other fields
- Managed timelines and expectations of deliverables for 3 multi-year projects
- Collaborated on projects with other teams ranging from ideation to design verification testing
- Fostered a team culture of excellence in technical skill and communication (written/verbal)
- Filed 3 patent applications in the fields of wireless ultrasound communication and sensor fusion

Senior Research Scientist | May 2022 – Nov 2022

- Used rapid prototyping to implement entire systems (hardware + software) demonstrating feasibility of medical device concepts
- Tested and optimized systems through experiments and discussions with Key Opinion Leaders
- Constructed demonstrations for internal and external parties showcasing our technologies

Lead Data Scientist | Nov 2020 – May 2022

- Designed and conducted experiments testing device usability. Analyzed and communicated data to cross-functional teams
- Designed and implemented several digital signal processing (DSP) algorithms for wireless ultrasound communication
- Simulated circuit models of electrical stimulation on biological tissue
- Collaborated with other teams to generate and test product concepts

UC BERKELEY; BERKELEY, CA

JUN 2020 – OCT 2020

Postdoctoral Researcher

- Aimed to understand how our brain's activities correlate to behavioral outputs through use of brain-machine interfaces
- Analyzed time-series data in Python and MATLAB, using machine learning to infer from sparse/noisy data
- Wrote and edited manuscripts including data visualizations
- Collaborated with and mentored junior lab members on a variety of related projects

SKILLS

- MATLAB, Python, SolidWorks, Fusion 360, Arduino, Jira, ClickUp
- Digital Signal Processing, CAD, Machine Learning, Data Processing/Visualization, Project Management