

Mike Perrotta

Scientist, Writer, Developer



Contact

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Education

University of Maryland

B.S. / College Park, MD

Neuroscience

2011 - 2015

Skills

- Python
- C / C++ / C#
- React / React Native
- Javascript
- Unity game engine
- Arduino
- git / GitHub
- 3D printing / CAD
- Soldering
- Bluetooth
- IRB
- SPSS
- ASL

Work Experience

Scientist

Neosensory / San Mateo, CA / Aug 2015 - present

- Design, execute, and analyze **scientific studies**, including review existing literature, gain IRB approval, recruit and run participants, and publish findings
- Design, execute, and analyze **user research studies** with over 60 deaf users to learn about their needs and behaviors when using the Neosensory Buzz
- Improve **sound-to-touch algorithm** performance, optimize embedded firmware code base, and create algorithm visualizations
- Develop and run tests to analyze **hardware systems** of the Neosensory Buzz, including the microphone and vibrating motors
- Work with the **Deaf and hard-of-hearing communities**, learn about Deaf culture, learn ASL, and teach ASL to coworkers
- **Hire and manage** full-time employees, long-term interns, and university engineering thesis teams

Research Assistant

Child Development Lab / University of Maryland /

Sep 2012 - Dec 2014

- Assisted researcher in **constructing study design**
- Ran and analyzed **electrophysiological studies**, including setting up EEG equipment and pre-processing and analyzing EEG data with MATLAB