

Fred Ramos

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EDUCATION

Boston University College of Engineering, Boston, MA

Bachelor of Science in Biomedical Engineering

May 2019

Final GPA: 3.46/4.00; Dean's List (Three semesters)

Selected Coursework: Introduction to Engineering Computation, Signals Processing, Analysis of Variance, Calculus 3, Molecular Bioengineering, Quantitative Physiology of the Auditory System, Electric Circuits

PROJECTS

Cortical EEG Signatures of Multisensory Integration in the Pip & Pop Effect

September-December 2017

- Utilized Matlab to analyze the brain activity of several sample subjects upon exposure to various sound tones
- Quantified the difference in Cortical EEG activity in response to various sounds frequencies.

Johnson & Johnson Trans Orbital Near-Infrared Light Treatment Device

September 2018-May 2019

- Prototyped a device to treat Traumatic Brain injury of the Orbitofrontal cortex using near-infrared light.
- Consulted biweekly with Johnson & Johnson representative.
- Personally responsible for designing preliminary circuitry and conducting initial light intensity experiments.

Basement Flood, Heat, and Moisture Monitor

October-December 2016

- Collaborated to design, code, and machine a multi-sensor Arduino based basement monitor.

SKILLS

Computer/Technology: Python, Matlab, SAS, JavaScript, Java, SQL, EtQ, SAP, LabVIEW

WORK EXPERIENCE

Product Surveillance Specialist - Short-term Contractor

Dover, OH

Zimmer Biomet

September 2019-February 2020

- Reviewed and revised medical device complaint records using EtQ, SAP, and service repair record.
- Reported trends in complaint record errors to the Quality Manager on a bi-monthly basis.
- Supported Zimmer Surgical Quality Assurance Engineering team by conducting final scrap reviews on returned medical devices

Hospital Intern

Chicago, IL

Norwegian American Hospital

July-August 2016 & 2017

- Logged liquids/chemicals and updated the Safety Data Sheet Record Book for the Facilities department.
- Entered patient rooms, interacted with them, and asked them for feedback on their care and room conditions.

Media Assistant

Boston, MA

Geddes Language Center

October 2015-May 2019

- Managed and prepared classrooms for various professors and student groups.
- Completed various organizational duties including digital and physical record management.

LEADERSHIP & COMMUNITY INVOLVEMENT

Society of Hispanic Professional Engineers, Vice President & Community Outreach Chair

May 2018-May 2019

- Planned, advertised, and executed several professional, social, cultural, and academic events aimed at the Hispanic STEM community of Boston University. For example: Networking Night with SHPE Professionals and Lotería Game Night
- Personally organized and led community service events for organizations including the Greater Boston Food Bank.

Engineering Student Government, Class of 2019 Secretary

September 2015-May 2019

- Collaborated in leading, organizing, and executing the College of Engineering Year End Formals.

St. Stephen's Youth Program

February –May 2018

- Taught, chaperoned, and gave homework help to a group of 20 South End 3-5th graders two days a week.

Greater Chicago Food Depository

2012-Present

- Organized donated food for various food shelters.

AWARDS & AFFILIATIONS

Chicago Engineers' Foundation Incentive Award

June 2015, 2016, 2017, 2018