

Anya Guzman

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EDUCATION

University of California, Davis

Bachelor of Science, Biomedical Engineering

June 2021

SKILLS

Standard Operating Procedures, Process Design, Project Management, Good Manufacturing Practices, Regulatory Systems, SolidWorks, Excel, MATLAB, MS Office, Mimics, Joint Track Auto, Arduino, Python, Statistical Analysis, 3D Design, Rapid Prototyping, Fritzing, and Experimental Design

EXPERIENCE

Medical Assistant – Hematology and Oncology Associates of Northern California Aug 2021 – Dec 2021

- Maintained accurate and strict confidentiality of patient information in electronic medical records as established by protocols, regulations, and policies through HIPAA compliance
- Communicated patient's needs and concerns to physicians and healthcare workers regarding their condition, symptoms, and treatment regimes

Clinical Research Assistant – UC Davis Health March 2020 – Aug 2021

- Aided the Trauma Surgical Department of Research by screening patients and completing data entry for prospective and retrospective clinical research studies
- Accomplished more data entries than 90% of the sites across the US for a multi-site clinical study and earned UC Davis a \$5,000 grant to advance the study
- Submitted protocol amendments and received approval from the Institutional Review Board to update clinical studies while practicing GCP, SOP, and HIPAA compliance
- Collaborated with admin members to execute the application, interview, and onboarding process of new research assistants

Program Coordinator – UC Davis Health Sept 2020 – June 2021

- Selected to develop, coordinate, and spearhead the internship program's first philanthropy outreach program for underserved youth interested in healthcare
- Fostered relationships throughout the program to create workshops, mentorships, professional panels, and keynote speakers for 30 high school students

Project Engineer – UC Davis Biomedical Engineering Department Sept 2020 – May 2021

- Collaborated with a team to research, design, and prototype a device within a 7 month time period
- Adhered to a budget for manufacturing the device using FMEA, BOM, DFM, GMP, ISO and QSR systems
- Performed validation and verification of the device to initiate corrective improvements
- Enhanced project efficiency by assigning roles and tasks, designing project timelines, and facilitating internal and external meetings demonstrated by these [spreadsheets](#)

Laboratory Research Assistant – UC Davis Hull Lab March 2018 – Nov 2018

- Laboratory Research Assistant for biomechanics lab studying Total Knee Arthroplasty surgery outcomes
- Create 3D masks of temporal and femoral components of the knee by processing CT scans using Mimics

PROJECTS

AeroSafe – Engineering Senior Design Project Sept 2020 – May 2021

- Designed and prototyped an active intubation barrier to decrease the risk of disease transmission to healthcare workers by reducing the quantity of SARS-CoV-2 airborne particles during tracheal intubation

Otoscope – Engineering CAD Project Jan 2021 – March 2021

- Collaborated with a team to design an otoscope and perform test analysis using SolidWorks Simulation

Music Reactive LED Lights – Arduino Class Project Sept 2020 – Dec 2020

- Partnered with a classmate to program LED lights to react to music and sound using Arduino Uno

LEADERSHIP AND UNIVERSITY INVOLVEMENT

Engineering Ambassador – College of Engineering Sept 2018 – June 2021

- Succeeded in recruiting 4 new ambassadors while training and mentoring future ambassadors
- Partnered with the Dean of Engineering to host outreach events including E-week, Give Day, and panels

Director of Outreach and Mentor – Biomedical Engineering Society June 2019 – July 2020

- Facilitated, taught, and created STEM lessons and projects for grades 2-12 with volunteers from BMES

Performer and Lead Event Coordinator – Ground and Field Theatre Festival Jan 2019 – Oct 2019

- Successfully managed showcasing events with over 60 volunteers resulting in a full house audience for nearly every full performance of the festival
- Performance *Ranked: A New Musical*, received Best Musical of 2019 by BroadWayWorld Sacramento