

LUIGI GALVAN

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EDUCATION

University of California, Berkeley

B.S. Bioengineering and Materials Science Engineering

May '18

Relevant coursework:

Biomechanics

Functional Biomaterials and Characterization

Polymeric Materials

Bonding, Crystallography, and Crystal Defects

Properties of Materials

Structure/Interpretation of Computer Programs

SKILLS

Microsoft Office suite

Experience working in a lab environment

Autodesk Inventor

SolidWorks

3D Modeling and Printing

Materials characterization techniques

RESEARCH

Undergraduate Researcher, Fletcher Lab, University of California, Berkeley

June 2015 – July 2018

- Designed and rapidly prototyped microscopic devices to quickly diagnose third-world tropical diseases
- Utilized 3D design software to quickly implement needed changes in major designs
- Presented designs to potential business partners, such as educational classes or museums
- Organized meetings to discuss device changes or develop new ideas to supplement research

CellScope Loa

- Worked on mobile microscopy platform designed for iPhone to diagnose Loa Loa infections
- Experimented with modifications to accompany different contrast techniques such as dark field
- Collected optical data to analyze efficiency of scopes

Mobile Phone Clip-On Microscopes

- Utilized reverse iPhone lens system to create lightweight mobile, clip-on microscopes
- Adapted design to different popular phone models
- Changed and improved designs based on user feedback
- Listed goals in order to work in a timely manner and meet set deadlines

WORK EXPERIENCE

Deployment Service Technician, Sutter Health

July 2018 – Present

- Provided desktop support to users of cloud based virtual workstation software
- Indoctrinated new users to virtual workstation software
- Maintained accurate database of hundreds of computers
- Acted as a medium of communication between engineering and end users
- Assisted users with IT related issues they encountered, such as networking or hardware problems

Online Retail Business Owner, Antioch, CA

June 2012 – Present

- Ran an eBay store specializing in electronics and video games
- Refurbished electronics to working order as necessary
- Kept a spreadsheet detailing expenses, fees, and profit

VOLUNTEERING

Corporate Branch Member, Biomedical Engineering Society

August 2014 – June 2015

- Organized and ran professional development events to assist new students in improving their communication and networking skills.
- Helped develop connections between the club and corporations of interest.