Bita Behziz

Newark, CA | (916)790-0403| bita.behziz@gmail.com

EDUCATION

University of California, Berkeley **08/2016- 12/2018**
Bachelor of Science, Mechanical Engineering (GPA 3.70)

SKILLS

- Proficient in SolidWorks, AutoCAD, MATLAB, LabVIEW, COMSOL Multiphysics, 3D printer, Sandia SUMMIT V process, injection molding, waterjet cutter, laser cutter, and Microsoft word
- Highly organized, detailed orientated and effectively work in a team
- Strong interpersonal and communication skills
- Ability to adjust to changing timelines and priorities in a fast-paced environment

PROFESSIONAL HISTORY

R&D Mechanical Engineer **07/2019- Present**
Vactronix Scientific, Fremont, CA

- Designed test procedures, production, and other mechanical related fixturing
- Designed assembly instructions and produced engineering drawings for Physical Vapor Deposition (PVD) systems' frame and control racks
- Improved the polishing system designs for stent production by data analysis of sensors data that increased efficiency by 8%
- Designed, implemented, analyzed , and published validation tests and operational manual for modified polishing systems

Program Manager **02/2014- 05/2016**
Mathematics, Engineering, Science, Achievement (MESA) Program, Sacramento, CA

- Tutord an average of 10 students daily in areas of Mathematics, Engineering, and Chemistry
- 120 newly enrolled students by providing qualitative tutoring sessions
- Coordinated and managed event awarding 520 graduating students through cooperated effectively with campuses' employees in Los Rios District

TECHNICAL EXPERIENCES

Undergraduate Mechanical Engineer Researcher—Microfluidic Medical Device **06/2017- 08/2017**
Sohn's Lab, Berkeley, CA

- Developed cancer cells mechanical phenotyping by designing the microfluidic platform
- Augmented 12% accuracy in simulation of the device using COMSOL, and CAD
- Presented the final poster at the SMART final Undergraduate Research Symposium

Undergraduate Mechanical Engineer Researcher—Robotic Exoskeleton **01/2017- 05/2017**
Masayoshi Tomizuka and HEART's Lab, Berkeley, CA

- Expedited the design of APEX testing ring for pneumatic stiffness control using SolidWorks
- Characterized the exoskeleton torsional stiffness by manufacturing and testing using 3D printer, mills, lathe, soldering irons, MATLAB code, and measuring instruments

Undergraduate Mechanical Engineer Researcher—Medical Device **06/2016- 08/2016**
AiMM REU Program, University of California, Merced, CA

- 73% increase in the heart tissue growth from stem cells on Polyacrylamide Gels by designing a innovative topographical patterning device
- Awarded scholarship as a well analyzed research at UC Merced Research Symposium with 300 participants

NASA Community College Aerospace Scholar **11/2014- 12/2014**
NASA, Houston, TX

- Designed and assembled a rover prototype using electrical Lego rover, CAD, and SolidWorks
- Achieved first place out of 10 teams by designing a robust rover's rock handling arms

AWARDS

- AIMM Travel scholarship **08/2016**
- Chancellor's Academic Excellence Award **01/2016**
- PG&E Better Together STEM scholarship **11/2016**
- People's Choice Award at *STEM Expertise Colloquium*: Talk **05/2015**
- First Place Award in MESA Mathematics Competition **05/2015**
- Soroptimist International of the Americas Ana Rhodes **11/2015**
- NASA Community College Aerospace Scholar **11/2014**