ELSAS

GEOGRAPHY: Southwest, Northeast, Northern California and Bay Area

INDUSTRY: Engineering

Education

Dual Bachelor of Science and Bachelor of Arts Degree Program

- Columbia University, The Fu Foundation School of Engineering and Applied Science, New York, NY Bachelor of Science, Biomedical Engineering; Concentration in Biomechanics
 - 3.43 GPA
- · Scripps College, Claremont, CA

Bachelor of Arts, Humanities, Cum Laude

- Dean's List: Spring 2010- Spring 2012
- 11.33 GPA (3.8 equivalent on 4-point scale)

Albuquerque Academy, Albuquerque, NM

Graduated May 2009 Cum Laude with cumulative GPA 4.36

Work Experience

DEF Medical Technologies, Baltimore, MD

Fall 2013-Current

CEO, TKAone Device, Columbia University 2014

- Designed and built an implantable device for early detection of periprosthetic infection in total knee arthroplasty
 - Collaborated with a team of researchers, physicians, and entrepeneurs to actualize the project
 - Developed a business plan for the project and pitched to potential financial backers
 - Filed provisional patent for the device
 - Received Capstone Award for top Senior Design Project in Biomedical Engineering
 - Awarded 3rd place in the Collegiate Inventors Competition

ACC Health, Albuquerque, NM Business Development Analyst

August 2014-November 2014

- Researched and strategized emerging business opportunities to diversify the client base
 - Thoroughly analyzed the Affordable Care Act and the implications on the changing healthcare landscape in order to predict trends in health and wellness
 - Initiated communication with potential business partners and industry experts to inform growth

Regeneron Pharmaceuticals, Tarrytown, NY

Summer 2013

Summer Intern in Oncology and Angiogenesis

- Characterized a liver metastasis model for human colorectal carcinoma
 - · Analyzed bioluminescence and ultrasound data to observe viable cell spread and tumor growth
 - Performed immunohistochemistry to study cell proliferation, invasive potential, and blood vessel density of tumor cells for treated versus untreated groups.

Amgen Scholar, Columbia University, New York, NY

Summer 2012-Spring 2013

- Research Assistant in the Laboratory for Functional Optical Imaging
- Worked on developing a hyperspectral imaging system in order to measure wound healing progress in patients with Recessive Dystrophic Epidermolysis Bullosa (RDEB)
 - Wrote MatLab code in order to process data, and innovated new ways to transport the imaging system

Sandia National Laboratories, Albuquerque, NM Summer Projects Intern

Summer 2011

- Programmed error analysis algorithms for detectors being built at the Department of Energy Laboratory
 - Wrote final report that detailed programming, as well as its uses and intention for the project; Published by Sandia National Laboratories

Related Technical Skills

Proficient in: Microsoft Office tools; Maple; MatLab; PTC Creo; Solidworks; Python; Adobe Photoshop, Illustrator, InDesign, and Bridge; tissue culturing; immunohistochemistry; machining, both wood and various metals