Imran Naim

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SUMMARY

Biomedical Engineer with a specialty in medical device design & development, manufacturing processes, and Cardiovascular and Molecular Biology research looking for full time opportunity to develop solutions for clinical healthcare environments.

EDUCATION

Georgia Institute of Technology; Atlanta, GA **Graduated: December 2013**

- B.S in Biomedical Engineering
- GPA: 3.34

WORK EXPERIENCE

Capzer Lab Technician Intern, Lake Worth, FL **July 2014 - Current**

- Performed HPLC testing on Raw Materials and Finished chemical/medical products to determine if products meet FDA regulations to ensure biocompatibility.
- Analyzed antibiotic concentrations in pharmaceutical drugs using bacterial cultures and UV spectraphotometer

Biomedical Engineering Mechanical Shop Instructor; Georgia Tech, Atlanta, GA **Fall 2013**

- Trained students and researchers to drill, tap, mill, lathe, saw, and 3D print for their various school or lab projects
- Fluent with machining materials such as aluminum, steel, and acrylic

Cardiovascular Fluids and Mechanics Lab Researcher; Georgia Tech, Atlanta, GA **2012-2014**

- Validated a reactor that mimics the physiological and hemodynamic environment of an aortic valve (AV) in order to gain insight into improving bioprosthetic aortic valve designs.
- Compared aortic valve calcification on AV leaflets between healthy and pathological conditions and ran stains to qualitatively and quantitatively analyze the health of the aortic valves.
- Programmed a FESTO piston to mimic the left ventricular pumping action of the model
- Used LabVIEW and pressure regulator to fine-tune ventricular and aortic pressure conditions

Neuroengineering Project; Georgia Tech, Atlanta, GA **Spring 2013**

- Developed an epilepsy model by culturing rat cortical neurons and testing various methods in Multi-electrode Arrays (MEA) to quiet spontaneous neural seizures.
- Used data acquisition software to detect neuronal network characteristics in the MEA plates by recording the electric analog signals and analyzed data using statistical analysis.

ETH Zurich Systems Immunology Internship; Basel, Switzerland **Summer 2012**

- Developed a high-throughput system to make antibody receptors by transfecting yeast with manipulated plasmids to create pharmaceutical recombinant proteins.
- Presented American and Swiss research as a Swiss ambassador to spread awareness of US/Swiss research

MIT Summer Internship; Cambridge, MA **Summer 2011**

- Analyzed Mesenchymal Stem Cell (MSC) migration in various growth factor (EGF/NRG) and extracellular conditions in order to see how MSCs behave in breast cancer environments. This provides insight into MSC delivery for future therapies.
- Learned to track, trace, and analyze cell migration using Imaris Software

LEADERSHIP POSITIONS

Biomedical Problems Senior Teaching Assistant; Georgia Tech, Atlanta, GA **2012-2014**

- Taught numerous concepts and skills behind medical device design to students including design approach, brainstorming, prototyping, model development, and solidworks.
- Graded students in my section and helped numerous groups redesign their own medical devices.

TEDx Georgia Tech Coordinator **Fall 2013 – Spring 2014**

- Recruited professors and members of organizations in the Atlanta area to speak for the conference
- Coached speakers on speech writing and delivery to make sure their speeches are engaging.

SKILLS

Software: Solidworks (CAD), ImageJ, FESTO, Geneious, Multielectrode Array recording and stimulation software, Imaris cell tracking, MATLAB, SIMULINK, vPython, LABVIEW.

Machining Skills: Drilling, tapping, milling, drop saw, and lathing to machine metal and acrylic materials.

Lab Technique: PCR, spectrometry, plasmid manipulations involving isothermal assembly, digestion, ligation, Multi-Electrode Array analysis, brightfield microscopy, phase contrast microscopy, paraffin tissue staining protocols, protein and DNA gels, sterile lab technique, HPLC, UV.