Sany Nguyen

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PERSONAL STATEMENT

I strongly believe in the value of physical and mental well-being, and I aspire to contribute my deep analytical and design skills to the community of biomedical engineering in order promote individuals to live their lives to their fullest potential. Seeking full-time employment in an environment that combines creativity and technology to solve pertinent challenges that inspires me to continually strive and thrive professionally.

EDUCATION

Bachelor of Science in Biomedical Engineering August 2013 – May 2017
Specialization in Neural Engineering GPA: 3.2
Illinois Institute of Technology Chicago, IL

Coursework: Quantitative Neural Function, Biomaterials, Biomedical Application of Statistics, Analysis of Biosignals and Systems, Circuit Analysis, Digital Systems, Introduction to Molecular Imaging, Biomedical Engineering Application of MATLAB, Biomedical Imaging and Sensing, Neuroimaging, Bioelectronics, Biosignals, Object Orientated Design (JAVA)

SKILLS

Languages: English, Vietnamese
Software: Microsoft Office, MATLAB, JAVA, AutoCAD, Photoshop, Inkscape, iMovie, Final Cut Pro, Prototyping

WORK EXPERIENCE

Neuromechanics Lab Assistant January 2016 – May 2016
Illinois Institute of Technology Chicago, IL
- Visualized cortical activation patterns of digital movement and force generation from macaque monkey using MATLAB
- Detected patterns in neural activation and studied applications of brain machine interfaces on patients with limited motor control

Guest Programs Intern May 2014 – August 2014
Museum of Science and Industry Chicago, IL
- Facilitated interactive science demonstrations involving combustion reactions, liquid nitrogen experiments, cow-eyeball dissections, solar system presentations, and digestive system explanations
- Encouraged young school children to develop a passion for Science, Technology, Engineering, and Medicine (STEM)

PROJECTS

Medline Eco-Innovative Sterilization Wraps Recycling Solution August 2016 - Present
- Developed concept for economical, efficient, and compact recycling machine to repurpose biohazardous hospital sterilization wraps and business model utilizing industrial ecology for Medline on interdisciplinary team of 5 students
- Created functional prototype of separation chamber based upon proof-of-concept testing for electrostatic and air separation

White Cane Reinvention September 2016 - October 2016
- Redesigned white cane for elderly patients with arthritis to include a heated convertible handle and a shock absorbent shaft
- Generated business model for concept testing and overall cost of cane

Introduction to Biomedical Engineering: Arduino Sensory Device August 2013 – December 2013
- Designed an Arduino bed-monitoring model involving a live-feed monitoring sensor to detect the impact of fallen patients
- Developed C++ code and iMovie presentation demonstrating device functioning

COMMUNITY SERVICE

Rehabilitation Institute of Chicago Chicago, IL
- Assist staff and patients in physical and occupational group sessions Oct 2016-Present

Medicine, Education, and Development for Low-Income Families, Everywhere (MEDLIFE) Quito, Ecuador
- Supported medical professionals to deliver free healthcare services to various mobile clinics in Ecuador May 2015
- Experienced cultural exposure, and learned about global health through interactions with patients and school children

INVOLVEMENT & AWARDS

- Biomedical Engineering Society (President), Society of Women Engineers (Events Coordinator), Resident Advisor, Vietnamese Student Association (Treasurer), Student Government Association (Senator), Union Board (Marketing Chair)
- Distinguished Service and Leadership Award, Certification in Leadership Studies, Dean's List