

Elizabeth Engineer

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OBJECTIVE

To obtain a full-time design engineering role related to biomedical device development

EDUCATION

Bachelors of Science, Biomedical Engineering **GPA: 3.92/4.0**
Rose-Hulman Institute of Technology, Terre Haute, IN May 2018
Relevant Courses: Biomedical Engineering Design, Biomechanics, Design for Manufacturability, Analysis and Design of Engineering Systems, Biomaterials, Analysis of Physiological Systems, Engineering Statistics

SKILLS

Manufacturing: Machining with Turret Mill, Engine Lathe, Waterjet, Power and Hand Tools; GD&T, MIG Welding
Laboratory: Biosafety, Aseptic Technique, Model Analysis, Experiment Design, Cell Culture and Banking, Bioassays, Liquid Nitrogen Handling and Safety, Cell Enumeration, Microscope Use
Technology: SolidWorks, Microsoft Excel, MATLAB, Maple, Minitab
Language: Fluent in Spanish

EXPERIENCE

Biomedical Engineering Capstone Design Project, Terre Haute, IN September 2017-May 2018
Engineering Student, Adjustable Wheelchair Project

- Part of a student team developing an adjustable pediatric wheelchair to accommodate growing children
- Involved directly in client communication, design work, prototyping, and documentation

Rose-Hulman Ventures, Terre Haute, IN April 2017-May 2018
Engineering Intern, Biomedical Engineering Department

- Worked in a small team to engineer solutions for client companies

NICO Corporation

- Conceptualized and developed solutions to problems with neurosurgical devices posed by client contact, culminating in the design and realization of prototypes suitable for use in laboratory testing (e.g. accessory system for company's flagship products, LED attachment for surgical handpiece)
- Managed significant portions of multiple simultaneous projects

Superior Essex Inc.

- Designed and prototyped mechanical components for optical measurement system
- Constructed bench-mounted testing apparatus to simulate manufacturing environment

Biomedical Engineering Research, University of Nebraska-Lincoln, Lincoln, NE June-August 2016
Summer Research Student, Biosystems Engineering

- Executed independently-formulated experiments in a self-guided research environment
- Analyzed data to develop a comprehensive quantifying equation for chemical levels based on sensor readings
- Presented results to teammates in weekly meetings and to public in final research symposium

Eli Lilly and Company, Indianapolis, IN June-August 2015
Summer Replacement Student, Bioassay Group, Bioproducts R&D

- Designed and ran bioassays to test the potency of bioproducts in development
- Created and populated an electronic catalog of over 6,000 cell lines stored in liquid nitrogen dewars
- Established, maintained, and banked five cell lines for experimental use

ACTIVITIES

Rose-Hulman Choir *President (2016-2017), Secretary (2015-2016)*
Delta Delta Delta Fraternity *Chapter Correspondent (2017-Present), Music Chairman (2014-2015)*
Rose-Hulman Drama Club *Play Selection Committee (2015-2016), Member (2014-Present, 10 shows)*
Rose-Hulman MakerLab *Member (2016-Present)*

HONORS AND AWARDS

Niles and Nancy Noblitt Scholarship (Sole Recipient) 2014-Present
Dean's list (GPA > 3.3) 2014-Present
Tau Beta Pi Engineering Honor Society 2016-Present
Heminway Scholar Award (Highest 1st Year GPA) 2015
Delta Delta Delta New Member Scholarship Award 2014