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## Objective

Biomedical Engineer Student seeking to work for a healthcare company that develops biotechnology and pharmaceuticals with an interest in product development, manufacturing, and operational processes ensuring quality products are being created to work effectively and optimally reach the physicians allowing them to provide patients with the best care.

## Education

Dual B.S. and M.S. of Science in Engineering (Biomedical Engineering) GPA: 3.63

Anticipated 2017 Graduation

Minor: Business

## Academic and Work Experience

### Masters Research Project

February 2015 – Present

Khismatullin Lab, Department of Biomedical Engineering, Tulane University

- Cultured cancer cells into pellets in combination with ethanol or chemotherapy drugs
- Applied High Intensity Focused Ultrasound to tumors *in vivo* models to study ablation effectiveness.
- Applied for and received numerous grants for funding of experiments
- Presented results at Biomedical Engineering Society Annual Meeting Research Conference

### Biomedical Engineering Intern

May 2015 – August 2015

Bioceptive Incorporated

- Performed a Literature Review for the development of a Clinical Evaluation for Bioceptive's Lucina Cervical Suction Retractor
- Developed an electric suction pump prototype to explore alternate vacuum sealing grip methods for cervical retractor

### Senior Design Project

August 2015 – May 2016

- Communicated with a surgeon to discover procedure flaws, complications, and potential improvements
- Focused our device to aid in the minimally invasive dissection of lower abdominal deep vascular tissue for re-implantation of tissue into the breast region
- Developed a prototype to reduce clutter around the small incision that combined a light and camera system into a retractor that was designed on solid works and 3D printed

### Business Plan Projects

March 2016 – May 2016

- Created a business plan for a patent pooling company of IP involving genetic engineering
- Researched the market to develop business need and potential for success
- Included projected financials based on assumptions gathered from market research

### Project and Experimental Design

August 2013-December 2013

- Designed a lower lumbar back brace to help patients suffering from spondylolisthesis so they could continue physical activity with reduced risk of spinal slippage
- Computed feasibility of design on solid works and with calculations made with assumptions
- Presented finding to class and professors within the department

## Skills

**Computer:** Microsoft Office, Arduino, Solid Works, MatLab, LabView, Abaqus

**Lab:** Cadaver Dissection, Cancer Cell culturing and HIFU experimental setup, In Vivo trials with experience handling mice for injections and HIFU treatment