

Lance Graul

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OBJECTIVE

Master of Engineering student in Biomedical Engineering with 5 years of CAD software and prototyping experience, as well as a year of experience with the Biomedical Device Laboratory manufacturing devices and characterizing/analyzing shape memory polymer foams, seeking entrance into the PhD program for Biomedical Engineering at Texas A&M University.

EDUCATION

Texas A&M University | College Station, TX August 2016 – (December 2017)

Dwight Look College of Engineering

- ❖ Master of Engineering Candidate – Biomedical Engineering

Case Western Reserve University | Cleveland, OH August 2012 – August 2016

Case School of Engineering

- ❖ B.S.E. Biomedical Engineering – Biomechanics

Case College of Arts and Sciences

- ❖ B.A. Classics – Classical Civilization

EXPERIENCE

Manufacturing Engineer/Research Assistant September 2016 – Present

Biomedical Device Laboratory – Texas A&M University, College Station, TX

- ❖ Manufacture neurovascular embolization devices for pre-clinical studies
- ❖ Perform research for preparing animal testing; analyze sterilization/aging on devices
- ❖ Analyze degradation of shape memory polymer foam devices *in vivo* using histology slides and surface area calculations

Summer Clinical Fellowship June 2017 – August 2017

Master of Engineering Program – Texas A&M University, College Station, TX

- ❖ First half of the summer included a lecture-based class compiled with 5 workshops aimed at accelerating knowledge of skills in Solidworks, Arduino, Python, and LabVIEW. This ended with the Aggies INVENT competition
- ❖ Second half consisted of a project that developed a concept-solution for managing VAP, mucus blockage, and biofilm within endotracheal tubes

Quality Assurance/Control Volunteer September 2016 – February 2017

Biomedical Device Laboratory – Texas A&M University, College Station, TX

- ❖ Implement and develop quality system for devices manufactured in BDL

Research Assistant May 2016 – August 2016

Cleveland VA Center – Cleveland FES Center, Cleveland, OH

- ❖ Improve the design of index finger joint-angle transducer for stroke rehabilitation evaluation tests

SERVICE / ACTIVITIES

Aggie Relay for Life May 2016 – Present

Online Director

- ❖ Responsible for maintaining the program's website and all social media outlets throughout the year. Help manage the AV/technical equipment for the program.

ESENS (Local High School Outreach Program)

May 2013 – August 2014

Community Outreach Leader

- ❖ Aided in directing the community outreach effort of ESENS club by planning events at local high schools and within the local college community

Case Western Reserve School of Nursing

February 2016

Simulation Manager – Biomedical Engineer Volunteer

- ❖ Directed and performed simulation for nursing students in pyloric stenosis scenario

PROFESSIONAL SKILLS

SolidWorks, MATLAB/Simulink, AutoCAD, MultiSim, Python, Arduino, LabVIEW, Mathcad, Microsoft Office (Excel, Word, PowerPoint), R-code, Origin, Metal Machining, Welding, Wood Working

Foreign Language

- Latin – Advanced
- Greek – Intermediate
- Italian – Basic

INVOLVEMENT / AWARDS

- ❖ Summer Clinical Fellowship June 2017 – August 2017
- ❖ Alpha Eta Mu Beta – BMEN Honor Society September 2017
- ❖ Aggies INVENT July 2017
- ❖ TMCx Bioinnovation Competition – Surgical Hackathon December 2016
- ❖ Intersections / ShowCASE Competitions – CWRU Fall 2015 / Spring 2016
- ❖ Undergraduate Circuits TA – ENGR 210 Fall 2014 – Spring 2015
- ❖ Dean's Honor List – CWRU 2015 – 2016
- ❖ Biomedical Engineering Society Spring 2014 – Present
- ❖ Eta Sigma Phi – Classics Honors Society 2016 – Present
- ❖ ATLANTIS – Classics Club Spring 2015 – August 2016
- ❖ Hackathon – Competitor January 2015
- ❖ Fuller Exam Awards: Greek and Latin Spring 2016
- ❖ National Greek Exam Award Spring 2016
- ❖ Bowling Club Spring 2015 – August 2016