

John Engineer

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EDUCATION

Duke University, Durham NC

Master of Engineering in Biomedical Engineering, GPA: 3.56

Expected to Graduate in May 2011

Duke University, Durham, NC

Bachelor of Science in Biomedical Engineering

Graduated in May 2010

Related Coursework

Micro Controllers, Material Science, Analog and Digital Electronics, Human Anatomy and Physiology, Biomechanics, Engineering Mathematics, Medical Instrumentation, Linear Control Theory, Signal Processing, Medical Imaging, Neural Signal Acquisition, Neural Prosthesis, Biodesign, Engineering Management

RELEVANT EXPERIENCE

Research Assistant: UNC Applied Mathematics Department

May 2007-May 2010

University of North Carolina at Chapel Hill, NC

- Assisted Principal Investigator and post-doctoral candidate perform research and data analysis, with a focus on the Hele-Shaw project.
- Studied highly viscous nearly Newtonian fluids and how they flowed through spaces and around objects.
- Used image-processing software to extract data of flow patterns.
- Implemented finite element analysis software to obtain theoretical data of the experiment in order to test the validity of the current theoretical models.

Research Project: Pratt School of Engineering

October – December 2010

Duke University, Durham, NC

- Constructed a short range low frequency power transfer system to be implemented in implantable devices, specifically for the acquisition of neural recordings from rodents.

Senior Design Project: Biomedical Engineering Department

January – May 2010

University of North Carolina at Chapel Hill, NC

- Conceptualized, developed, and produced a packaging supply system specifically designed for and implemented by factory workers with Cerebral Palsy.

Research Project: Biomedical Engineering Department

August – December 2010

University of North Carolina at Chapel Hill, NC

- Created a grasping hand integrated with a Lynx motion robotic arm which was controlled using human bio-potentials.

SKILLS

Soldering

Proficient in Spanish

Computer skills: Microsoft Office products, Solid Works, Mathematica, Matlab, LabVIEW, C/C++, Assembly Language

LEADERSHIP

Duke University, Durham, NC

Fencing Team Varsity Athlete

- Captain

2006-2010

2009-2010

Carolina Leadership Academy

2006 – 2010

AWARDS RECEIVED

Nike Scholarship

2006-2010

Finalist in the AbilityOne Network Design Challenge

2009-2010

Most Improved on Men's Fencing Team

2006-2007, 2008-2009