

YINGBO SHI

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Aug 2011 – May 2015

Bachelor of Science in Biomedical Engineering – Dean's List
Minor in Music Technology

SKILLS

Biomedical: CAD 2D & 3D Modeling, Rapid Prototyping, Statistical Analysis, Experimental Design, Quality Control, Technical Writing, GMP, CFR 820

Bioinstrumentations: Microscopes, Calipers, Optical Measuring Systems, and Micrometers

Software: Solidworks, LabView, Matlab, Keyshot, Showcase, PLAS, InDesign, Microsoft Suite

Communication: Strong problem solving, analytical, interpersonal and presentation skills.

Leadership: Managed a team of undergraduate researchers in a strict lab environment successfully. Responsible for validity and accuracy of data while maintaining productive teamwork and lab peer relationships. Trained new lab associates.

Languages: English (fluent), Mandarin Chinese (native).

PROFESSIONAL EXPERIENCE

Data Quality Control Manager

Georgia Institute of Technology / Emory University ALS Lab, Atlanta, GA

Mar 2014 – May 2015

- Managed data collection adhering to strict lab procedures and quality control standards.
- Trained a total of 34 undergraduate research associates in key areas for successful lab work.
- Performed meta-analysis of excitotoxic factors present in the G93A mouse model with minimum supervision.
- Interacted with other team members to properly allocate resources and optimize productivity in the lab.
- Recognized as Undergraduate Research Associate of the Month (May, June, Oct 2014).

Research Assistant

Georgia Institute of Technology / Human Factors and Aging Lab, Atlanta, GA

Jan 2015 – May 2015

- Analyzed system usability reports on the Xbox game console UI, and chose the best fitting report for research.
- Managed the registry of research participants, and maintained detailed records of all interactions and outcomes.
- Assisted new participants during the on-boarding process.

R&D Engineer Intern

Shanghai Microport Co., Shanghai, China

June 2013 – Aug 2013

- Gained and utilized vast knowledge of the product development process in a cross-functional project team.
- Validated functional performance of pacemaker leads through controlled animal trials.
- Assembled pacemaker leads and conducted precision measurements for them.
- Performed biocompatibility safety assessments of medical devices.

KEY PROJECTS AT GEORGIA TECH

- **Capstone Project** (2015): Designed an application for glucose monitoring data analysis in diabetic patients.
- **Quantitative Engineering Physiology Lab** (2014): Developed and executed experimental protocols to test material properties according to ASTM standards; interpreted quantitative measures, statistical analysis, and experimental data.
- **Medical Device Design and Development** (2013): Managed the design and prototyping of an insulin pen for diabetic arthritis patients; utilized CAD and 3D printers for prototype development.
- **Self-Directed Biomedical Problem Solving** (2012): Analyzed accuracy of the Smart Blood Pressure Monitor; researched, modeled, and presented the biochemical effectiveness of treatment in cystic fibrosis patients.

VOLUNTEER EXPERIENCE

- **Layout Editor** • Georgia Tech Pioneer Biomedical Engineering Newsletter, Atlanta, GA • 2013-2014
- **Medical Devices Engineer** • Engineering World Health Georgia Tech Chapter, Atlanta, GA • 2012-2013
- **Violinist** • Georgia Tech Symphony Orchestra, Atlanta, GA • 2012-2015
- **Volunteer Chef** • Atlanta Homeless Shelter, Atlanta, GA • 2011