

Bilin Loi

US Permanent Resident
14087 Flintwood Way, Apple Valley, MN 55124
952.594.9811, bloi@wisc.edu

OBJECTIVE

Biomedical Engineering internship in research and development.
Special interest in prosthetic development and assistive devices.

EDUCATION

University of Wisconsin-Madison

B.S. Biomedical Engineering, expected May 2018

- **Cumulative GPA 3.234/4.0**

Academic Design Projects:

Synthetic Bone Grafts: Created synthetic bone grafts from PMMA. Tested and analyzed grafts under physiological conditions using a handmade bioreactor. Designed the grafts towards patient's needs and patient demographics. Determined range of success as outlined by patient parameters.

Intraventricular Drainage System: Created a CAD design of a valve to control flow of Cerebrospinal fluid in patients with head trauma or infants. Analyzed areas of forces and leakage mathematically. Developed a 3D printed prototype.

EXPERIENCE

Chesler Lab., UW-Madison

Undergraduate Researcher January 2015 – current

- Analyze histology slides for control, diseased, and treated heart and lung sections for mice and rats. Determine the effects of Pulmonary Hypertension and effects of treatment on physiology.
- Mix chemicals that create a physiological condition to test mitochondrial activity for estrogen implanted rats. Created a system to efficiently analyze and organize data.

University Housing - Residence Life., UW-Madison

House Fellow (Resident Assistant) August 2016 - current

- Communicate with 70 individuals to establish a community and a healthy learning environment. Large contributor to a great first-year experience and retention of first-year students on campus.
- Create events to educate students about their actions and their effects on themselves and others. Help develop an understanding of stress relief, volunteering, mental health, and social justice.

University Housing – Facilities., UW-Madison

Custodial Student Lead May – August 2016

- Lead and provided guidance to a group of 6 people on different tasks to clean a 567-room residence hall within 1 ½ months. Finished on time for a group of 600 people to move in.
- Communicated with team members about expectations and took action toward mistakes which lead to better work ethic, teamwork, and understanding between team members.

Elite Dental., Apple Valley, MN

Office Assistant January 2016 – Seasonal, current

- Organized over 3000 patients' insurance and patient treatment charts to increase productivity and accuracy of information necessary for future doctors and insurance companies.
- Made appointments, handled money, and verified insurance to communicate patient benefit and maintenance of dental health.

SKILLS

Software: Word, Excel, Powerpoint, SolidWorks