# Lisa C. Penn

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## EDUCATION

**University of Pennsylvania**, School of Engineering and Applied Science                                      **Philadelphia, PA**
*Candidate for Master of Science in Engineering*: Bioengineering, May 20XX
Cumulative GPA: 3.56/4.00

**University of Michigan**, College of Engineering                                      **Ann Arbor, MI**
*Bachelor of Science in Engineering, magna cum laude*: Mechanical Engineering & Bioengineering, May 20XX
Cumulative GPA:  3.73/4.00

## SKILLS

**Laboratory:** DNA sequencing**,** microfluidics, **c**ell culture, protein purification, Western blot, assays, PCR, Gel electrophoresis, Imaging, Cell Transduction and Fixation, staining, vector cloning, imaging, EMG, and ECG
**Fabrication:** Design, machining, assembly, CNC milling, laser cutting, 3D printing, failure analysis, GD & T, microcontrollers
**Computer**: Java, MATLAB, SolidWorks, LoggarPro, ImageJ, Microsoft Excel, Word, PowerPoint; beginning Python

## PROFESSIONAL EXPERIENCE

**Johnson Orthopaedic Research Laboratory**, Research Assistant, September 202x – Present                 **Philadelphia, PA**
• Explore negative implications of extreme endurance running on bone strength through microCT image and mechanical
   analyses on mouse hind limb bones
• Implement dye-staining protocol for lab to detect microcracks in bone resulting from fatigue loading

**Hospital of University of Michigan**, Bioengineering Research Assistant, August 201x – May 202x                 **Ann Arbor, MI**
• Detected and minimized motion artifacts in cerebral blood flow measurements under supervision of Dr. X. Smith
• Shadowed doctors and other healthcare professionals in OR and ICU

**Southern Michigan Cancer Research Institute**, Researcher, May 201x – August 202x                 **Detroit, MI**
• Studied effect of pH on p75 neurotrophin receptor, a trigger of brain glioma

## PROJECTS

**Dermdetect,** *Team of 3***,** January 202x – May 202x
• Developed app for uploading dermatology photos to Parse database for use in education and machine learning
• Added user profiles and admin profile management functionality utilizing Agile approach managed by Jira

**Orthofit,** *Team of 5***,** September 202x – December 202x
• Designed, tested (FEA, three-point bending, and joint angle analysis), 3D-printed, and fabricated polypropylene
   prototypes of modular orthotic targeted towards developing countries to remove need for trained specialists,
   significantly reduce costs, and increase longevity of use; evaluated use factors and refined orthotic fitting process

## LEADERSHIP & VOLUNTEER EXPERIENCE

**Philadelphia School for Children with Cerebral Palsy**, Volunteer, October 202x – Present                 **Philadelphia, PA**
• Assist 10 children with severe forms of cerebral palsy in music therapy to aid in rehabilitating motor control

**Michigan Bioethics Journal**, Managing Editor, September 202x – May 202x                 **Ann Arbor, MI**
• Edited and published accepted submissions to undergraduate bioethics journal with a global readership