

Paymon Sadat

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Education

University of Illinois at Urbana-Champaign

Expected 05/2024

- Bachelor of Science in Bioengineering
- Minors in Computer Science, Electrical Engineering, and Mathematics

GPA: 4.00/4.00

Work Experience

Translational Genomics Research Institute

05/2022 to 08/2022

Helios Scholars Research Intern

Phoenix, AZ

- Researched how mutations in the human MTFMT gene that affect mitochondrial protein translation contribute to rare childhood disorders involving oxidative phosphorylation dysfunction
- Reported findings in technical poster presentation and written paper abstract at Helios Intern Symposium in addition to an oral presentation meant for public audiences
- Performed fibroblast cell cultures, protein gel electrophoresis, and western blot analysis to compare mitochondrial proteins in healthy vs mutated cell lines

MediCarbone

05/2021 to 08/2021

R&D Intern

Tucson, AZ

- Developed an AI image recognition program incorporating data collection and online research for fitting polymer bone implants to individual patients based on X-ray photos of fractures
- Conducted material sample collection and sterilization to test strength properties of various polymers and adhesive compounds to be used in patient bone implants
- Analyzed nanoparticle incorporation into polymers relating to increased strength properties by using a tabletop scanning electron microscope

Leadership Experience

Engineering Open House Central Committee

05/2022 to Present

Director of Facilities and Equipment

Champaign, IL

- Assembled layout for over 200 student exhibits across 14 buildings and 8 outdoor spaces to present large-scale science fair event attracting 40,000 attendees
- Corresponded with university personnel and committee members to coordinate space and equipment requests with student teams establishing quick and efficient equipment delivery and exhibit placement
- Oversaw groups of over 50 student volunteers executing day-of event tasks

Biomedical Engineering Society

05/2022 to Present

Assistant Industrial Relations Chair

Champaign, IL

- Conducted outreach and professional communication with over 30 biomedical engineering companies
- Organized recruitment events to connect students with companies for professional opportunities
- Managed BMES mentorship program fostering strong professional relationships and growth among our members and industry personnel

Engineering Open House: 3D Printed Prosthetic Hand

08/2021 to 04/2022

Project Team Lead

Champaign, IL

- Delegated tasks and led team of 5 students in brainstorming sessions to facilitate a collaborative team environment producing a model prosthetic hand with moving parts
- Implemented and prototyped our design using Onshape CAD software and servo motors programmed by an Arduino microcontroller while helping team members improve technical skills
- Presented our working finished product at Engineering Open House in front of a large public audience inspiring young students to pursue engineering prospects

Skills

- Software/Coding: Java, C++, Python, MATLAB, Simulink, Solidworks, and Onshape
- Miscellaneous: Lifeguarding and CPR certifications from American Red Cross