

Shelby Mochal

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Entry Level Biomedical Engineering Professional

Passionate and driven towards designing products and devices that will help people maintain an active and healthy lifestyle while protecting and enhancing the human body.

Education

UW-MADISON | B.S. BIOMEDICAL ENGINEERING | MAY 2018

- **Overall GPA:** 3.1/4.0
- **Certificate:** Biology in Engineering

Experience

FIELD CLINICIAN REP INTERN | BOSTON SCIENTIFIC | MADISON, WI | JUNE 2017 TO PRESENT

- Member of the Cardiac Rhythm Management team
- Performed patient-device interrogations for individuals with implanted pacemakers and defibrillators
- Screened patients for the EMBLEM™ MRI S-ICD Device
- Updated pacemaker and S-ICD programmers, handled product returns, and provided courier services

CHILDREN'S HOSPITAL SHADOWING | HANGER CLINIC: PROSTHETICS & ORTHOTICS | MILWAUKEE, WI | SUMMER 17

- Observed prosthetic castings and fittings
- Observed orthotic device assessments and fittings

ACADEMIC ENGINEERING DESIGN PROJECTS | MADISON, WI | SPRING 2015 TO PRESENT

- **Artificial Bone Graft and Bioreactor:** Designed, fabricated, and tested samples of PMMA under stresses up to 100N after two weeks using a self-made bioreactor mimicking physiological conditions
- **Handicap Accessible Bicycle:** Designed, fabricated, and tested an interactive bicycle attachment for a TBI patient (*Lemelson-MIT Student Prize Applicant*)
- **Anastomosis Tension Meter:** Designed, fabricated, and tested a tension meter to provide surgical data to improve healing and reduce suture site tearing after procedures

Activities

- **Engineering EXPO Volunteer (2016 & 2018):** Introduced prospective students to the fields of science and engineering through basic engineering experiments and industry representatives.
- **Member of Biomedical Engineering Society:** Participated in monthly meetings and attended industry professional lectures
- **Biomedical Engineering Mentor:** Assisted freshmen biomedical engineering students with college adaptation and provided guidance through the engineering curriculum

Skills

- SolidWorks, Prototyping, Python, MATLAB, Microsoft Office, Spanish, Written and Verbal communication skills