

Hannah Soifer

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EDUCATION

University of Michigan

BSE in Electrical Engineering

International Minor for Engineers

GPA: 3.85/4.00

- *Relevant Coursework:* Digital Signal Processing, Data Structures and Algorithms, Electrical Biophysics
- *Honors:*
 - College of Engineering Scholarship of Honor recipient
 - Dean's List 2014-2016
 - Eta Kappa Nu (HKN) Active Member
 - Engineering Honors Program participant

Ann Arbor, MI

May 2018

EXPERIENCE

PeriOperative Designer and Engineer

Michigan Health Engineered for All Lives (M-HEAL)

- Team goal: design a mattress that regulates a patient's temperature while under anesthesia for hospitals in Jarabacoa and Cabrera, Dominican Republic
- Built mattress using resistive wire, conductive foam, and polyurethane coated nylon
- Designed and integrated control elements, including circuits and Arduino code
- Performed user testing and hospital observations in the Dominican Republic

January 2016-Present

Dominican Republic

Design Challenges Co-Coordinator

Michigan Health Engineered for All Lives (M-HEAL)

- Coordinated global health based design competition for undergrads
- Planned three workshops by working with faculty members and peers
- Mentored two teams through creating prototypes for global health problem

September 2015-May 2016

Ann Arbor, MI

Automotive Test Engineering Intern

NSF International

- Wrote protocols for certifying proximity sensors and rearview cameras in vehicles
- Regulated brake manufacturers and analyzed data using tools in Excel
- Created PowerPoints about certification programs to send to insurance company representatives

May 2016-July 2016

Ann Arbor, MI

Signal Processing Research Assistant

University of Michigan Neuroscience Lab

- Studied basal ganglia circuits and their connection to movement disorders such as Parkinson's disease
- Implemented functions to analyze a video and determine if a rat is sleeping
- Implemented functions to determine bursts and average tetrode waveform

May 2015-May 2016

Ann Arbor, MI

Secretary

Michigan Health Engineered for All Lives (M-HEAL)

- Created a database to organize all past and present resources for nine project teams and ten officers
- Created a new system for tracking membership involvement
- Designed a new format for weekly announcements that is more interactive for all 200 members

May 2016-Present

Ann Arbor, MI

SKILLS

- Computer:
 - Proficient: C++, MATLAB, Arduino, Microsoft Excel
 - Familiar with: Python, Java, Adobe Photoshop
- Languages: Conversational Spanish