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LEXIE KIRSCH

HUMAN FACTORS ENGINEER

Education

M.S. Human Factors Engineering
Tufts University, Medford, MA
Graduated May 2019
Focus in Human Factors in Medical Technology

B.S. Human Factors Engineering
Tufts University, Medford, MA
Graduated May 2018
GPA: 3.56, Magna Cum Laude, Dean's List

Skills

Computer-Aided Design
AutoCAD, Inventor, REVIT, 3ds Max

Computer Science
HTML, CSS, Javascript, SVG, d3, C++

Design
Sketch, SketchUp

Statistics
SPSS, R, SAS

Objective

Passionate about using design thinking to reduce medical error and other usability issues.

Experience

Human Factors Co-op, May 2019 - Present
Farm Design, Hollis, NH

- Conducted formative and summative usability testing for a sepsis detection system used by laboratory technicians and an auto-injector used by nurses, caregivers, and patients.
- Analyzed usability data, performed quality control, and wrote reports summarizing data and suggesting mitigations.
- Delivered a presentation on the importance of testing users with impairments and on the FDA's guidelines for writing an Instructions for Use for drug products.
- Wrote an AAMI paper with 4 co-workers demonstrating how manufacturers can use MAUDE and FDA Recall databases to identify design opportunities.

Resident Assistant (RA), Sep 2016 - May 2017
Tufts University, Medford, MA

- Designed and implemented monthly educational, social, and passive programs and materials to enrich student experiences.
- Collaborated with team of 5 RAs to create safe, cohesive community for 220 students; served as direct contact and personal support for 42 residents.

Projects

Tufts Social App

- Created survey to assess user preferences regarding ways to improve sense of community on campus.
- Designed UI prototypes using Adobe XD.
- Conducted 4 rounds of usability testing to iterate and refine prototypes.

Sit-Stand Storage Station

- Designed a sit-stand workstation with storage shelving to improve student productivity.
- Conducted 3 rounds of usability testing to iterate and refine prototypes.