LEXIE KIRSCH

HUMAN FACTORS ENGINEER

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Experienced researcher who leverages design to make medical devices safer, more effective, and easier to use.

Experience

Human Factors Co-op, Farm Design, Hollis, NH — Nov 2019 – May 2020

- Moderated sessions in person and remotely for usability and preference studies with physicians, laboratory technicians, nurses, caregivers, and pediatric, adolescent, and adult patients
- Authored formative and summative protocols and reports, recruiting screeners, moderator's scripts, and HFE summary reports; and executed research within an ISO 13485-certified quality system
- Studied relevant standards and guidelines, e.g., FDA HF Guidance, IEC 62366, HE75, and ISO 14971
- Streamlined processes by reorganizing server based on a survey, card sort, and direct feedback

Human Factors Summer Intern, Farm Design, Hollis, NH — May 2019 – Nov 2019

- Distilled root causes by analyzing observational data for use errors, close calls, and use difficulties
- Identified trends between and within user groups by creating pivot tables of quantitative data
- Presented work to the research team on methods and best practices for testing users with physical and mental impairments, which was presented at HFES 2020
- Assisted uFMEA and task analysis development, participant recruitment, and quality control

Publications

Using the FDA MAUDE and Medical Device Recall Databases to Design Better Devices

- Co-authored an article featured in AAMI's BI&T that demonstrated how manufacturers might use MAUDE and FDA Recall databases to identify design opportunities that mitigate risk, available at https://doi.org/10.2345/0899-8205-54.3.178
- Supported development of article into a presentation for HFES 2020

Education

M.S. Human Factors Engineering
Tufts University, Medford, MA
Graduated May 2019, GPA: 3.77
Certificate in Human Factors in Medical Devices and Systems

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

Technical Skills

- Adobe Premier Pro
- AutoCAD, Inventor, REVIT, 3ds Max, Sketch, SketchUp
- HTML, CSS, JavaScript, SVG, d3, C++
- SPSS, R, SAS

Soft Skills

- Excellent written communication skills
- Client-facing conduct
- Results-oriented performance
- Thoughtful collaborator
- Works well independently