

ANIKA NOOR

HEALTHCARE UX
DIGITAL HEALTH
HUMAN-CENTERED DESIGN

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UX & DESIGN

Figma • Wireframing
Prototyping • UX Research
Usability Testing
User-Centered Design

HEALTHCARE & TECH

Medical Simulation
Assistive Technology
SolidWorks • Python
MATLAB • Arduino

RESEARCH & DATA

FlowJo • Data Analysis
Experimental Design
Biomedical Research

EDUCATION

B.S. BIOENGINEERING

University of Colorado
Anschutz Medical Campus
May 2019

UX TRAINING

Google UX Design Professional Certificate
Master Digital Product Design
Complete Figma Course
Adobe XD UI/UX Design

HONORS

NSF S-STEM Scholar
NASA-COSGC Space Grant Recipient
Colorado Merit Award

PROFILE

Bioengineering-trained human-centered design professional with healthcare domain experience spanning medical simulation, assistive technology, biomedical research, and digital product design. Combines UX research, usability testing, prototyping, and Figma with engineering and data-analysis fluency to translate complex healthcare needs into usable product concepts.

HUMAN-CENTERED BIOMEDICAL DESIGN

Assistive Drinking Device

Bioengineering Design Project | SolidWorks

- Designed a hands-free hydration concept requiring minimal bite force, applying human-centered design principles to improve accessibility for users with physical limitations.
- Translated user and functional requirements into a CAD-based assistive-device concept.

Pacemaker Integration with Laerdal SimBaby | Senior Capstone

SolidWorks • Python • MATLAB • Arduino

- Developed a biomedical simulation system integrating cardiac pacing concepts with a pediatric simulation platform for clinical training.
- Combined physical design, programming, prototyping, integration, testing, and system evaluation to support physiological and arrhythmia simulation.

Cardiovascular & Respiratory Simulation Manikin

SolidWorks • C# • Arduino

- Contributed to a low-cost medical simulation mannequin concept for resource-limited settings, including user-needs analysis, concept selection, engineering design, and programming.

HEALTHCARE RESEARCH EXPERIENCE

Undergraduate Research Assistant

University of Colorado Anschutz Medical Campus | May 2018 - May 2019

- Analyzed biomedical and de-identified clinical datasets in NIH-funded translational research, including Multiple Sclerosis and Type II Diabetes research.
- Used FlowJo to analyze lymphocyte protein-expression data and communicated findings through scientific analysis, documentation, and poster presentation.

ADDITIONAL TECHNICAL PROJECTS

Water Contamination Detection Incubator

SolidWorks • Arduino • MATLAB • Python

- Developed a cost-conscious microbial water-safety incubator concept integrating CAD, embedded systems, programming, and data-analysis tools.

NASA-COSGC Research & Flight Projects

Biological Research • C • Arduino • MATLAB • Data Analysis

- Conducted high-altitude cyanobacteria research through laboratory work, Arduino-based experimentation, and post-flight analysis; separately contributed to sounding-rocket instrumentation integrated into the payload and flown.