Tyler Webster

Designer & Builder

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Professional Experience

DLB Associates ● June 2022 – June 2023
Electrical Design Engineer

- Designed and reviewed electrical system models for new construction and fit out data-center projects
- Conducted load, short circuit, voltage drop, duct bank calculations, breaker coordination studies, etc.
- Led site visits and managed construction administration processes with contractors and clients
- Collaborated remotely with a 20+ person team and external stakeholders

Trek Bicycle Corporation ● May 2021 - Aug 2021
Product Development Engineering Intern

- Managed 30+ person user study collecting anatomical data, optimizing bicycle fit geometry
- Researched and developed procedure, software, and electronics to evaluate developmental electric bicycles
- Produced test results responsible for triggering development of new internal standards for e-bike motors
- Created engineering test plans based on ISO Standards

James Madison University ● Aug 2019 - May 2022
Undergraduate Research Assistant

- Engineered a wearable computing device for the purpose of exploring the use of haptic feed-forwarding
- Generated PCB, software, and algorithms to automate wireless haptic feedback system
- Created system prototypes and conducted usability studies

Eniware ● May 2017 - Jul 2017
Prduct Development Intern

- Generated prototype designs and renderings for presentation and display
- Cooperated with lead engineer to develop a portable surgical equipment sterilizer
- Collaborated with chemists to optimize internal layout for sterilization processes

Education

Carnegie Mellon University
Aug 2023 – Aug 2024
Master of Human-computer Interaction

James Madison University
Aug 2018 - May 2022
B.S Engineering, Math & Robotics Minors

Highlighted Projects

MARi AI
Capstone Project

- Programmed AI-driven interfaces to test personalized learning tools and gather user feedback
- Conducted user interviews and testing to gather insights on user experience, refining designs based on feedback

Intelliride Autonomous E-Bike
Curriculum Project

- Created design system, interfaces and interactions for a forward thinking autonomous electric bicycle
- Created and usability tested prototype physical controls for an E-bike concept

Skills

Development
HTML/CSS	Javascript	ReactJS
Python	C/C++	Linux

Design
Prototyping	Figma	Accessibility
Sketching	Design for AI	P.M

Engineering
Solidworks	AutoCAD	Revit
PCB Design	S.O.C	FEA