Colleen Fulton

SOFTWARE DEVELOPER

Software Developer interested in full-stack development and leadership, searching for an immediate full-time role. Enrolled in a Master of Computer Science starting Fall of 2024.

EXPERIENCE

Product Design Engineer

💼 Individual Contractor   📅 2023 - 2024

Assisted a engineering company consisting of five people in the design and submission of a new product under rigorous deadlines.

- Redesigned a detachable sheet metal mechanism for an electric agricultural vehicle, enhancing its ability to withstand high loads and enabling autonomous pick-up and relocation
- Conducted in-depth kinematic linkage studies of multiple pneumatic actuators using Matlab, ensuring compliance with estimated load while optimizing sheet metal geometry
- Created a detailed bill of materials, updated CAD models, and finalized drawing packages for the production of an off-road vehicle

Mechanical Engineer (Product Lead)

💼 DEKA Research & Development   📅 2021 – 2023

Product Lead in the developing a medical device subsystem; addressed critical design flaws, reduced assembly time by 49%, and conducted test cases vital for FDA submission.

- Created CAD packages consisting of over 300 components and cut subsystem assembly time in half by implementing five clean room fixtures
- Designed forty-two test case reports to resolve design failures, define system requirements, and evaluate design performance regarding ISO standards
- Managed the workflow of four interns, ensuring their contributions met project milestones while supporting their individual goals and founded a company-wide group that serves as a platform to discuss professional development and foster mentorship for entry-level engineers & managers

EDUCATION

Georgia Institute of Technology

📖 M.S. Computer Science specializing in Human-Computer Interaction   📅 Current

Rose-Hulman Institute of Technology

📖 B.S. Mechanical Engineering with a minor in Robotics Engineering   📅 2021

SKILLS

- Prototyping
- Wireframing
- Data analysis
- Project coordination
- Design reviews
- Technical documentation

TOOLS

- Figma
- Java
- React
- Node.js
- Visual Studio Code
- Confluence & Jira
- Microsoft Products
- Git & GitHub