



# 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 an 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 the 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 development of 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