

Clark Mitchell

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Project Highlights

Prosthetic Adaptation for Heavy Machinery

Designed devices for people with transradial amputations to operate machinery with dual joystick control

Worked directly with a client and company to ensure ergonomic and mechanical functions were fulfilled

Conducted research including site and specialist visits to develop the product for the environment and safety

Wheelchair Gear Attachment

Designed and tested a gear system to provide an inexpensive alternative to electric wheelchairs

Utilized a multidiameter face gear system allowing ease in mobility with inclines

Work Experience

New Product Development Intern

G&W Electric, Bolingbrook, IL
May 2019 – August 2019

Designed steel framing for heavy loads and equipment for factory usage in transportation and assembly

Conducted FEA focused on both static loads and vibration modes

Drafted work instructions and ISO 9001 documentation for various builds and tests

Research and Development Intern

Ideal Industries, Sycamore, IL
March 2021 - August 2021

Conducted customer research and analysis to evaluate the desirability and feasibility of product attributes

Tested and documented new methods of project flows and organizations for the company moving forward

Education

Northwestern University

Evanston, IL

Engineering Design Innovation,
March 2023

University of Illinois

Urbana-Champaign, IL

Major: Bachelor of Science,
Mechanical Engineering

Minor: Art and Design and Art History
December 2020

Skills

Creo Parametric, Solidworks,
Windchill

Python, MATLAB, C++

Brazing, casting, enameling, raising,
microwelding

Research interviewing, synthesis

Student Activities

Marching Illini Color Guard: Squad
Leader and Uniform Coordinator
2019-2021; Member 2016-2021

University of Illinois Juggling Club:
President 2018-2019; Treasurer
2017-2018

Coordinated and advertised large
scale events, weekly meetings, and
group purchases

Women in Math Science and
Engineering: Resident 2016-2018