# Project Description & Objectives

*Provide a description of the project, as your team understands it, and include any objectives of the project as well as objectives your team might desire.*

The project involves designing and implementing a glove that can detect how close the person is to their clothes, detect colors and match them with other suitable ones. The primary objective is being able to match clothing to create different outfits. It is easy for visually impaired people to wear jeans and a top, but there are many instances where they have to branch out and need to be able to match, for example, needing to wear slacks for a business meeting and accidentally choosing brown pants and a black blazer. This product is most helpful for those with a large collection of clothes in their closet, because it will allow them to flip through clothes quickly and tell the color and how to match it.

# Project Deliverables

*Highlight all deliverables of the project. Anything that needs to be submitted or demonstrated counts as a project deliverable.*

This project will have an ultrasonic sensor to detect how far the person is from the clothing, an RGB sensor to detect the color of the clothing, a vibration motor to let the user know it is done scanning, and a speaker to tell the user what color the clothing is as long as good matching options that go with that color. This technology will need the following deliverables to create a final product:

* Materials List
* Final Color List
* Color Matching List
* Progress Reports
* List of Sayings for Speaker
* Test Results Report
* Final Design Model
* Progress Schedule / Timeline

# Project Duration & Major Tasks

*State the time available for completion of the project, and be sure to include major tasks critical to the completion of the project.*

Finished Project: April 24th (2 months total)

To Complete:

* Final Design of Glove
* Finished Color Lists
* Research for rough idea of code
* Acquiring all materials and sensors
* Connect all inputs and outputs to glove
* Finished Coding
* Testing

# Project Customers & Stakeholders

*Identify all customers and stakeholders of this project.*

Our product is designed specifically for visually impaired people who struggle with getting dressed in the morning. They act as our customers and ideal demographic for this project. Some people that are included in this group are the individuals that we interviewed prior to our design. They have directly expressed their concerns that we aimed to solve and they can hopefully see improvements in their daily lives as a result of our product. Our team, as the creators of this product, are some of the biggest stakeholders in this project. Other stakeholders include the professor and TAs, who provided resources for this design and therefore it is in their best interest for us to create a successful product.

# Team Members & Roles

*State the team members, as well as the roles they might play on the team. Some examples of roles are Documentation, Robot Design, Robot Programming, and Project Manager.*

Dominic Polcyn: Robot Programming, Tester

Kaitlyn Younger: Design Aspects, Collecting Materials, Color List

Ayush Pant: Project Documentation, Timeline Manager

Thien Tran: Software Programming, Collecting data (colors, etc)