# Introduction

<Description of challenge>

<Description of intended user>

# Research

<Existing Commercial Options>

|  |  |
| --- | --- |
| Title |  |
| Link |  |
| Author |  |
| License |  |
| Cost |  |
| Notes |  |

<DIY designs>

|  |  |
| --- | --- |
| Title |  |
| Link |  |
| Author |  |
| License |  |
| Cost |  |
| Test Build (Y/N) |  |
| Add to Library (Y/N) |  |
| Notes |  |

# Requirements

## Goals

|  |  |
| --- | --- |
| G01 |  |
| G02 |  |
| G03 |  |

## Functional Requirements

|  |  |
| --- | --- |
| F01 |  |
| F02 |  |
| F03 |  |

## Non-functional Requirement

|  |  |
| --- | --- |
| NF01 |  |
| NF02 |  |
| NF03 |  |

## Constraints

|  |  |
| --- | --- |
| C01 |  |
| C02 |  |
| C03 |  |

# Ideation

# Conceptual Design

## Concept 1

## Concept 2

## Concept 3

# Prototyping

# Testing

# Detailed Design

# Opportunities for Improvement