# Introduction

This device is a foot pedal switch that functions like a standard 3.5mm mono jack switch, but can be operated with a foot.

# Research

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Picture | Price | Link |
| G-Switch GS04 |  | $29.00 | [Link](https://glassouse.com/product/foot-switch-glassouse-assistive-device-accessory-hands-free/) |
| Single Foot Switch Computer Interface |  | $41.60 | [Link](https://www.adaptivetechsolutions.com/pd-single-foot-switch-computer-interface/) |
| Three Switch Computer Controller Pedals |  | $58.13 | [Link](https://www.adaptivetechsolutions.com/pd-three-switch-computer-controller-foot-pedals/) |

# Requirements

## Goals

|  |  |
| --- | --- |
| G01 | Create a foot operated switch |

## Functional Requirements

|  |  |
| --- | --- |
| F01 | Activate a mono jack switch with activation of a foot pedal |

## Non-functional Requirement

|  |  |
| --- | --- |
| NF01 | Cost less than 15 dollars |

## Constraints

|  |  |
| --- | --- |
| C01 | Buildable by users with minimal experience soldering |
| C02 | Built using easily available components |

# Testing

When the foot pedal switch was assembled, it was tested with the switch tested. It was found to have roughly a 1.5-pound activation weight and worked normally.

# Opportunities for Improvement

An enclosure could be designed to protect the wire connection between the switch and the jack.