# Introduction

This device is intended for users with arthritis that have difficulty typing due to joint pain. The ball of the device provides an easy grip, while the stylus allows for the user to type.

# Research

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Image | Price | Link |
| Page Turner-Keyboard Aid with Wrist Cuff | Image of the keyboard aid being used to press a button on a keyboard | $49.95 | [Link](https://www.maxiaids.com/page-turner-keyboard-aid-with-wrist-cuff) |

# Requirements

## Goals

|  |  |
| --- | --- |
| G01 | Device must allow a user with limited hand function to type on a keyboard. |

## Functional Requirements

|  |  |
| --- | --- |
| F01 | Device must be easy to grip by someone with limited hand function |
| F02 | Device must be able to press buttons on a keyboard. |

## Constraints

|  |  |
| --- | --- |
| C01 | Device must be entirely 3D printed |

# Testing

The device was test printed and found to work well.

# Opportunities for Improvement

There is potential for a built in method of fastening the two halves together that eliminates the need for glue or a soldering iron.