Hand-Raiser
SUMMARY

Title
Hand-Raiser

Subtitle
An assistive device used to catch the attention of a professor: an alternative to a student having to raise their hand.

Device Specifications
Build Time:

- [ ] < 1hr
- [x] 1-4 hr
- [ ] 5-10hr
- [ ] >10hr

Cost:

- [ ] $0 - $10
- [x] $11 - $25
- [ ] $26 - $50
- [ ] $51 - $100
- [ ] $101 - $250
- [ ] $250+

Stage: Recently Added

Skills: 3D Printing, Software

Need: Mobility

Disability: Mobility/Physical

Difficulty: Beginner

License:

Usages: Aids for Daily Living (ADL), Mobility, Communications Aids (AAC)

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Type:

Designer: AT Makers

Device Details

Overview

The Hand-Raiser is an assistive device intended to be used to catch the attention of a professor without a student having to raise their hand. This device would be beneficial for someone who has difficulty or is unable to raise their hand for an extended period of time.

Usage

The Hand-Raiser works by flashing it's light according to the incoming requests through the USB connection. The Hand-Raiser includes a set of Windows Shortcuts that can be used to change the LED by just double clicking on it.

Compatibility

The Hand-Raiser can work with any PC, Mac, Android, or Raspberry Pi with a USB port.

Cost

The Hand-Raiser costs approximately $15.

Build Instructions

A set of build instructions can be found linked above in the Assembly Guide.

Skills Required

- 3D Printing Skills
- Programming

Time Required

- Total print time: 70 minutes
- Assembly Time: 10 minutes

Tools

- 3D Printer
- Computer with USB port

Components

- 1x Adafruit Trinket - Link
- 1x USB Cable - USB A to micro-B - Link

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Makers Making Change
A Neil Squire Program

3D Printing

All components can be printed with no support at 20% infill with a 0.2mm layer height. There are 3 pieces to the enclosure: a back plate, a hanging hook, and a faceplate.

- 1x Back Plate
- 1x Hanging Hook
- 1x Faceplate - This piece must be printed with translucent filament.

Note that there are several versions of the hook and the faceplate, but you only need one of each.

Attribution

The code for this device was written by Bill Binko and is licensed under the MIT license.

The Hand-Raiser 3D printed housing was designed by AT Makers and is licensed under the Creative Commons - Attribution - Non-Commercial - Share Alike license.

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