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ADAPTIVE_HID_INTERFACE

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[CONTACT](#)

Adaptive HID Interface

Our project is to research and design an adaptive interface device for modern computers. The device will have a focus on affordability, iterative design, and easy operation. Construct and test the device for viability in general use; then generate a case study on the effectiveness of this approach to bringing adaptive technology to a larger audience.

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[HOME](#)

[ABOUT](#)

[CONTACT](#)

Our Team

Christopher Bero
Hardware Lead, Community Outreach

Bryant Johnson
Testing Lead, Technical Writer

Mike Baldwin
Software Lead, Systems Interface

John Gould
Systems Lead, Microcontrollers



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HOME

ABOUT

CONTACT

Related Works



Alternative systems exist to also increase accessibilities for people with various disabilities. Some approaches include keyboards with larger switches, keyboards controlled by the user's head or mouth, brail embossed keyboards or covers, and other keyless keyboards.



MORE



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HOME

ABOUT

CONTACT

How it Works



Below we have documented two flowcharts which illustrate the logic behind our hardware as well as a users manual which contains how our product is operated as well as any health and safety warnings.



KEYBOARD PLAN

HARDWARE IMPLEMENTATION

USER'S MANUAL



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Observations

We had huge success in keeping the cost of our project very low relative to similar retail products.

Our hardware is very helpful for many situations. By being a low-cost alternative to existing technology our hardware is increasingly available to users without insurance. This also benefits anyone considering developing this technology by allowing them to begin working on similar hardware with a much smaller financial investment.

The software is available as both a stand-alone application as well as a chrome extension. As a chrome extension it is easily accessible by many users with minimal computer knowledge required.

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HOME

ABOUT

CONTACT

Costs



Below we have links that document both our financial and time investments into our project.



COST

SCHEDULE

