

Jazz Hands Keyboard RFP

We are building keyboard gloves to liberate the computer user from the tyranny of the desk!

We'll use Hall effect sensors, accelerometers and the [ZMK Keyboard firmware](#) to implement the 10-key [ASETNIOP](#) layout, and a novel, joystick-style approach to mouse movement. A similar concept can be found in this [blog post](#).

An existing PCB and firmware from an earlier project has been used as a proof-of-concept. The following work needs to be done to transform the project into a working design suitable for personal use; if successful, it may be released as open source.

Hardware

[Existing PCB design and BOM](#)

Phase 1

- Replace bodged on/off Hall effect sensors with variable sensitivity components, allowing fine-tuning in software
- Modification of connectors for easier assembly by JLC
- Assemble & deliver two sets of devices

Phase 2

- Design and produce 3D-printed enclosures

Software

[Existing ASETNIOP ZMK Layout](#)

Phase 1

- Update ZMK to latest version
- Implement ZMK module for communicating with Hall effect sensors

Phase 2

- Implement mouse control using accelerometer. Think “motorcycle throttle”, not “air mouse”

About Me

I'm [Pete Fein](#), a software consultant and CMU adjunct professor with over 30 years of programming experience. I have severe RSI in my wrists/arms/elbows which limits my ability to do my job and generally use a computer. I've tried every keyboard and alternative input device commercially available with only moderate improvements to quality of life and productivity. Email me at pete@snake.dev or [schedule a call](#).