

Kundalini Piano Mirroring Platform Value Proposition

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Students of the piano – especially those studying classical music – have the difficult task of striving to achieve the intra-hemispheric brain coordination which is required to develop the motor coordination needed to utilize both of their hands equally. This level of development is referred to as *ambidexterity*, but because of brain lateralization in humans, most people naturally tend to have a dominant brain hemisphere, which results in a dominant hand. Subsequently, this tendency often results in their dominant hand being more pianistically-developed than their non-dominant hand.

One specific pianistic technique which has historically been utilized by (concert) pianists to develop ambidexterity is called *symmetrical inversion*. Symmetrical inversion is a practice technique that takes advantage of the fact that both the anatomy of the human hand, as well as the piano keyboard, are symmetrical. Therefore, it is possible to play passages originally written for one hand in the opposite hand *in mirror image*. While a powerful practice technique, the method of symmetrical inversion is not practical for most students; this is because the technique leads to completely non-harmonic (“non-musical”) sounds.

The Kundalini Piano Mirroring Platform uniquely solves this problem by performing real-time remapping of which *keys* on a [digital] piano keyboard produce which *itches*, therefore allowing symmetrically-inverted playing to produce aesthetically-pleasing musical outcomes. Additionally my solution additionally adds the ability to mirror only one half of the piano keyboard. This mode of operation (which is referred to as **right-hand descending mode**, and **left-hand ascending mode**, respectfully) allows one hand to play as per normal, while the other hand plays using symmetrical inversion, but with the produced pitches corresponding *only to the original passage*. This method allows passages which one already knows in one hand to be easily learned symmetrically-inverted in the other, because the inverted hand can “follow along” naturally.

I believe my platform will succeed in the market because it is a completely novel technology which makes it practical to introduce symmetrically-inverted playing to piano students from the very beginning. This has the potential to significantly enhance music education.

Additionally, I have produced a physical (working) prototype of my product, which because of falling hardware costs and the limited amount of processing power needed to implement this technology, can be produced cheaply, leading to high profit margins when it is sold.

Additionally, my method is both completely novel and patented, and therefore one significant potential source of revenue is in licensing it to piano manufactures.