

# MIDI Autofill

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# 1 Executive Summary

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Bibliography reference example (Adams 1995)

## 2 Specifications and Requirements

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## 3 Research

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## **4 Broader Impacts**

One of the most difficult aspects of producing music as a hobby is a lack of accessible equipment. Often, it requires several pieces of hardware at over \$100 each as well as licensed software to compose a polished track. This expensive and convoluted process restricts the reach of music production as an art. As technology expands into the music production world, the art becomes more accessible to the everyday person, and the MIDI Autofill keyboard will be yet another step along that path. With recording, editing, and auto-completion all conveniently packaged into a single portable piece of equipment, novice producers can begin completing polished tracks without having to seek out, invest in, and store a stockpile of hardware.

Additionally, the autofill feature can benefit new practitioners and professionals alike. One of the biggest stressors in songwriting is writer's block – it can completely bottleneck the production process and halt all progress until resolved. For beginners this can be frustrating and discourage further exploration into the art, and for professionals this can come at the detriment of deadlines. The melody autofill feature can provide inspiration or even an immediate solution, expediting the process and allowing artists to be more productive with their ideas. The goal is to empower independent creators because the more people can express themselves through art, the richer and more diverse our culture and society become.

## References

Adams, D. (1995). *The Hitchhiker's Guide to the Galaxy*. San Val. ISBN: 9781417642595.  
URL: <http://books.google.com/books?id=W-xMPgAACAAJ>.