



MX MIDI Guitar



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Summary

<https://youtu.be/BDwOBYsL71Q> Build a guitar hero inspired MIDI controller!

[Gadgets](#) > [Audio](#)

Tags: [diy](#) [guitar](#) [arduino](#) [controller](#) [adafruit](#) [midi](#)
[circuitpython](#) [musicalinstrument](#)

<https://youtu.be/BDwOBYsL71Q>

Build a guitar hero inspired MIDI controller! Features Cherry MX switches, accelerometer and whammy bar! Features a strumming mode so you can power through chords and notes giving you a playing style unlike typical MIDI controllers. The whammy bar lets you pitch bend making it feel like an electric guitar. Using an accelerometer, you can move the guitar to adjust modulation giving you an expressive playing style.

Learn Guide

<https://learn.adafruit.com/mx-midi-guitar/>

Code on GitHub

https://github.com/adafruit/Adafruit_Learning_System_Guides/tree/master/MX_MIDI_Guitar

Liz Clark @BlitzCityDIY

<https://www.youtube.com/watch?v=q6v2C1idLWU>

<https://www.youtube.com/channel/UCbAUKL7V6OOGumQEeDMYQvQ>
<https://www.instagram.com/BlitzCityDIY>
<https://www.twitter.com/BlitzCityDIY>

Grand Central M4

<https://www.adafruit.com/product/4084>

LIS3DH Accelerometer

<https://www.adafruit.com/product/2809>

Adafruit Quarter Size Perma Proto

<https://www.adafruit.com/product/1608>

3D Printing Projects Playlist:

[https://www.youtube.com/playlist?
list=PLjF7R1fz_OOWD2dJNRIN46uhMCWvNOIbG](https://www.youtube.com/playlist?list=PLjF7R1fz_OOWD2dJNRIN46uhMCWvNOIbG)

3D Hangout Show Playlist:

[https://www.youtube.com/playlist?
list=PLjF7R1fz_OOVgpmWevin2slopw_A3-A8Y](https://www.youtube.com/playlist?list=PLjF7R1fz_OOVgpmWevin2slopw_A3-A8Y)

Layer by Layer CAD Tutorials Playlist:

[https://www.youtube.com/playlist?
list=PLjF7R1fz_OOVsMp6nKnpjsXSQ45nxfORb](https://www.youtube.com/playlist?list=PLjF7R1fz_OOVsMp6nKnpjsXSQ45nxfORb)

Timelapse Tuesday Playlist:

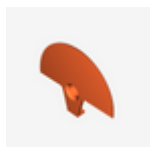
[https://www.youtube.com/playlist?
list=PLjF7R1fz_OOVagy3CktXsAAs4b153xpp_](https://www.youtube.com/playlist?list=PLjF7R1fz_OOVagy3CktXsAAs4b153xpp_)

Connect with Noe and Pedro on Social Media:

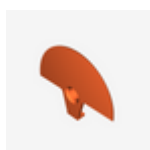
Noe's Twitter / Instagram: @ecken

Pedro's Twitter / Instagram: @videopixil

Model files



wmy-wheel-pot-035.stl



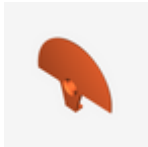
wmy-wheel-pot-03.stl



head-diffuser.stl



pick-plate-sw-right.stl



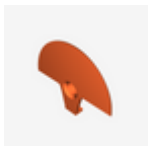
wmy-wheel-pot-04.stl



neck-top-45.stl



neck-top.stl



wmy-wheel-pot-06.stl



head-top.stl



neck-bottom.stl



head-case.stl



pick-plate-sw-left.stl



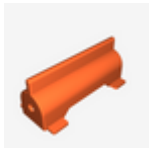
body-right-top.stl



pick-hinge.stl



body-left-top.stl



pick-base.stl



pick-mount.stl



pick-joint.stl



body-left-bottom.stl



body-middle-bottom.stl



guitar-hook-tripod.stl



wmy-spring-ring-b.stl



wmy-plate-idler.stl



wmy-plate-pot.stl



wmy-spring-ring-a.stl



body-right-bottom.stl



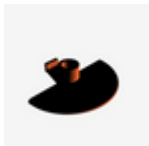
body-middle-top.stl



wmy-plate-spring.stl



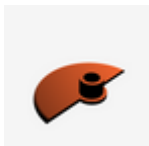
wmy-wheel-mid.stl



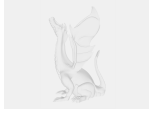
wmy-wheel-pot.stl



neck-bottom-45.stl



wmy-wheel-joint.stl



mx-guitar.step

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