



Mini Exercise Bike ESP32 Virtual Conversion

 **Gatesy**

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Summary

Upgraded Standard trip counter on Mini Exercise Bike to use an ESP32 computer with a python server to drive video speed



4.00 hrs



2 pcs



0.20 mm



0.40 mm



PLA



98 g



Prusa MK4 &
MMU3

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I recently purchased a Mini excercise bike and decided to upgrade the trip counter to display a basic count and broadcast the count to a Python server to remotely calculate the distance and speed as well as being able to log results and control video playback speed as an incentive

This one is modeled specifically for the "Verpeak Mini Pedal bike" (<https://www.amazon.com.au/Verpeak-Mini-Pedal-Bike-Display/dp/B0C1JT2SY2>) but the model and process can be adapted to many other bikes,

The blog is showing the build process and the requiered ESP32 control functions and code. The blog can be found at: <https://www.gdcorner.com/blog/2024/05/24/VirtualBike.html>

Printed with 2 perimeters at 15% Lightning infill. 2 seperate prints so that i could print the Outer (visable) case with nicer filament and the inner (non visable) pieces with cheaper filament. All Holes are 4mm to fit heat press inserts and take M3x8mm screws.

Model files



bike-battery.3mf



bike-screen-brace.3mf



bike-curve.3mf



bike-base.3mf



bike-case.3mf

Print files



base-battery-screen-brace.bgcode

🌀 PLA 🌀 0.40 mm 🌀 0.20 mm 🕒 1.28 hrs 📊 32 g

📄 Sliced on MMU3 Profile



case-curve.bgcode

🌀 PLA 🌀 0.40 mm 🌀 0.20 mm 🕒 2.72 hrs 📊 66 g

📄 Sliced on MMU3 Profile

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