



# Electric Mountainboard Motor and Vesc Mount



Basement Creations

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updated 12. 4. 2022 | published 30. 3. 2022

## Summary

I am building an electric mountainboard and since I bought a used and unbranded board I had to make all the necessary...

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Tags: [electricsskateboard](#) [vesc](#) [mountainboard](#)  
[emountainboard](#)

I am building an electric mountainboard and since I bought a used and unbranded board I had to make all the necessary parts by myself. I made my 10S5P battery already so now is the time to mount the motor and connect it to the vesc. Honestly I thought that 3D printed plastic mounts would break or bend. That is why I used metal reinforcements. And that construction works great! I took my board for several off road rides and the mounts still hold perfectly. However if you want to make those mounts for your skateboard keep in mind that you most likely will have to edit some parts to fit to your truck. I included here all the files in different formats so you can easily edit everything. You can find more details on my channel.

More pictures in better quality <https://cults3d.com/en/3d-model/gadget/electric-mountainboard-motor-and-vesc-mount>

YouTube video - <https://youtu.be/hwI-GV1nkvw>

First Part about Battery Pack - <https://youtu.be/ONbf9zvdYfI>

Parts list for the mountainboard - <https://cults3d.com/en/3d-model/gadget/18650-10s5p-battery-pack-visualization>

Parts for Motor and Vesc Mount

- 10x M5 70mm screw

- 8x M5 Nut

- 2x M5 Self-Locking Nut

- 2x 12x12x230mm Aluminium hollow square tube

- 4x 8x185mm steel rod(I used scratched linear rails from my 3D Printer)

- Some 3M screws

- HTD5M 15t Pulley(You should get one that fits your motor shaft.I bought mine from Flipsky.Use Keyway)

- HTD5M 460x15mm Toothed Belt

- 5x M5 55mm screws with nuts(to connect wheel with pulley)

Other things that I used

- Waterproof box YT-08900

- Flipsky X6B(PWM output) and FS-I6X

- VESC Tool <https://vesc-project.com/node/17>

Wiring diagram <https://img.staticbg.com/images/oaupload/banggood/images/C0/09/1301a712-9cbc-4bd4-9299-5eee6e80401c.jpg>

You can connect normal PWM receiver to PPM port and motor sensor wires to SENSE port.

My Cults3D profile <https://cults3d.com/en/users/BasementCreations/creations>

If you have any questions

basementcreationsemail@gmail.com

## Print Settings

### Printer:

Anet A8

### Rafts:

No

### Supports:

Doesn't Matter

### Resolution:

0.2

### Infill:

50%

### Filament:

PlastSpaw PLA

Black

### Notes:

I printed all the parts from PLA.

Use 100% infill for Clamps and Small Motor mounts

Use 50% infill and 4-6 walls for Big Motor Mount and Pulley

Category: Hobby

## Model files



mountainboard-vesc\_mount.stl



mountainboard-clamp\_2.stl

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**mountainboard-mud\_cover.stl**

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**mountainboard-small\_motor\_mount\_1.stl**

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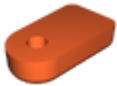
**mountainboard\_model.ipt**

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**mountainboard\_model.step**

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**mountainboard-vesc\_clamp.stl**

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**mountainboard\_model.f3d**

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**mountainboard-72t\_pulley.stl**

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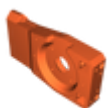
**mountainboard-clamp\_1.stl**

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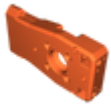
**mountainboard-small\_motor\_mount\_2.stl**

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**mountainboard-big\_motor\_mount\_2.stl**

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## mountainboard-big\_motor\_mount\_1.stl

[Find source .stl files on Thingiverse.com](#)

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