

Mini Mars Rover



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VIEW IN BROWSER

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Summary

Mini Mars Rover built with Raspberry Pi Pico some 3D printed parts and

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Tags: [mini](#) [open](#) [robot](#) [educational](#) [mars](#) [rover](#)
[robotic](#) [platform](#) [orp](#)

Pico Mars Rover was built as an educational platform to inspire and let kids (but not only) learn about programming, electronics, technology and space. Build around the new Raspberry Pi Pico W can be programmed in MicroPython and controlled through WiFi with a server app written in Python. Of course all the electronics can be replaced with for example Arduino. The chassis of the robot was built with [Open Robotic Platform](#) in mind so that it is easy to design holders, adapters and parts and reuse those you already have. I used cheap and popular DC motors together with omniwheels but feel free to experiment and replace the parts according to your needs.

More information:

My GitHub with all the parts, schematics and more information:
<https://github.com/NikodemBartnik/Mini-Mars-Rover>

Model files



pcb-distance.3mf



motor-shield-back-right.3mf



drivers-holder.3mf



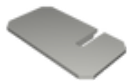
motor-shield-front-left.3mf



motor-shield-front-right.3mf



plates-distance.3mf



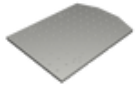
camera-box-top.3mf



batter-flap.3mf



motor-arm-back-right.3mf



base-plate.3mf



battery-holder.3mf



linker.3mf



camera-box.3mf



motor-arm-front-left.3mf



motor-arm-back-left.3mf



camera_holder.3mf



motor-shield-back-left.3mf



switch-holder.3mf



motor-arm-front-right.3mf



camera-pole.3mf

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