



A.W.S - Aras Wheel Stand, foldable and rigid



P--JawZ--K

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Summary

A foldable wheel stand I originally made for my step-son, so he could enjoy driving cars with me in simulators.

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My kid had the urge to get into sim driving like I have been for some years. So I started designing a foldable rig that could fit his needs.

Originally designed for a Logitech G29 wheel with accessories, I ended up using it for myself and fixed up my old foldable rig for his setup.

So it also have the possibility to mount a Moza R9/R5/R3 base to it. Or wheel anything really, it's a alu extrusion system, modular is name of the game here.

I also noticed, as a bonus, if you you unscrew the back "legs" of the folding mechanism. And align them vertically and mount them to the "front legs". You get essentially a rigid sim rig.

As stable as a proper rigid build, but with possibility to fold it together if needed quite easily.

There are two step files uploaded, one aimed for typical office chair and

gaming chairs most of us uses in front of our PC's.

The other version is for a dedicated rigid sim rig setup, either using a car chair, like I do, or a sim rig specific bucket seat.

This design was designed to have milled alu parts, but should not be an issue to have them 3D printed as well.

I might 3D print them in the future to test them out and do necessary adjustments for improved strength and printability.

Some of the extrusions need to milled though, to get the full functionality as intended out of this system. But could be made with just drilling holes instead of milling out a slot.

3rd party models used in my rig;

<https://www.printables.com/model/706545-sim-rig-end-caps-for-aluminium-profiles-4040-4080->

<https://www.printables.com/model/826677-4040-angle-bracket-set>

Model files

asw-asm-for-car-chair.step

|| This is for those looking for a dedicated sim rig.

asw-asm-for-office-chair.step

|| If you don't have the space for a permanent sim rig, choose this design.

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