

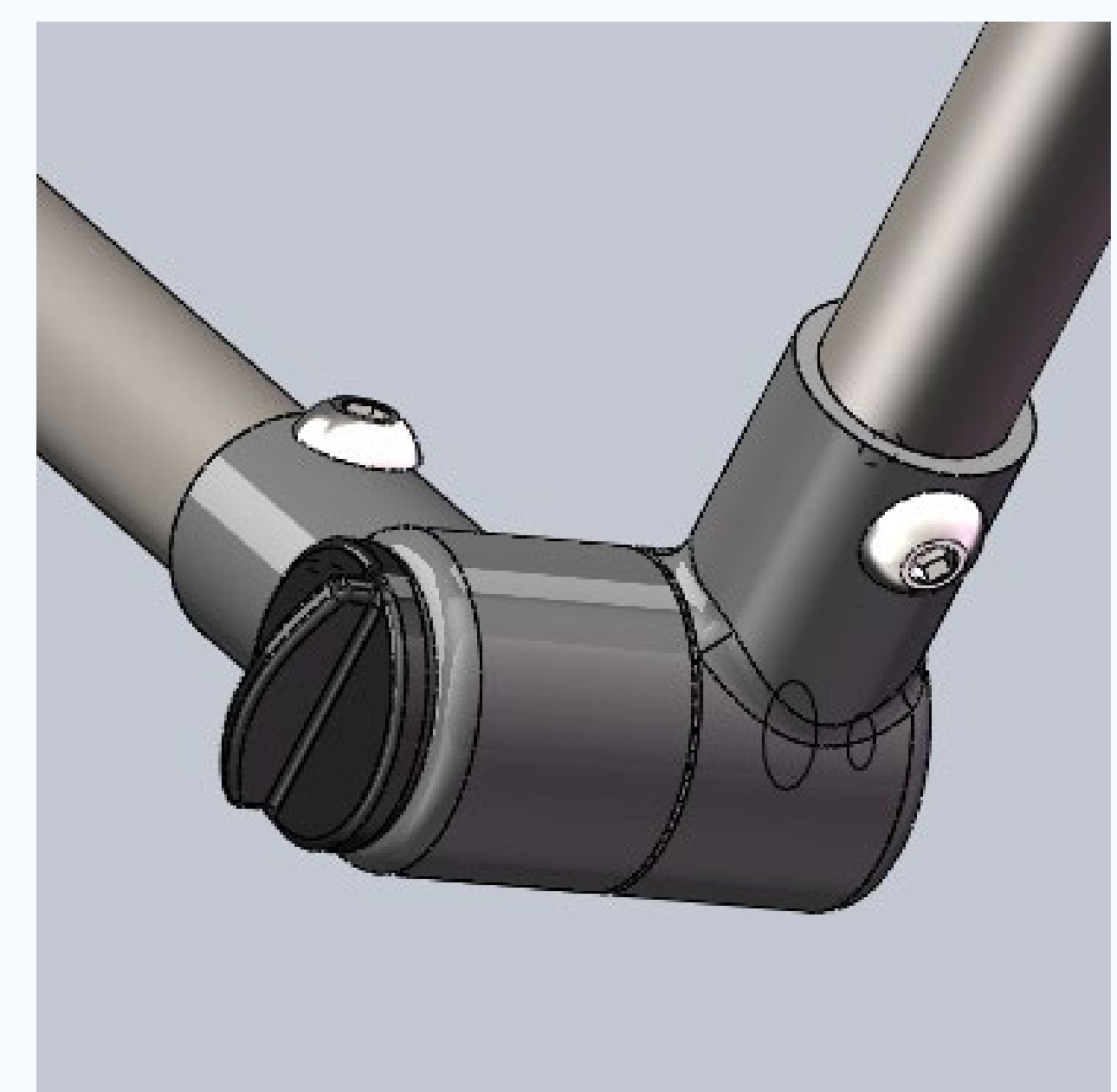
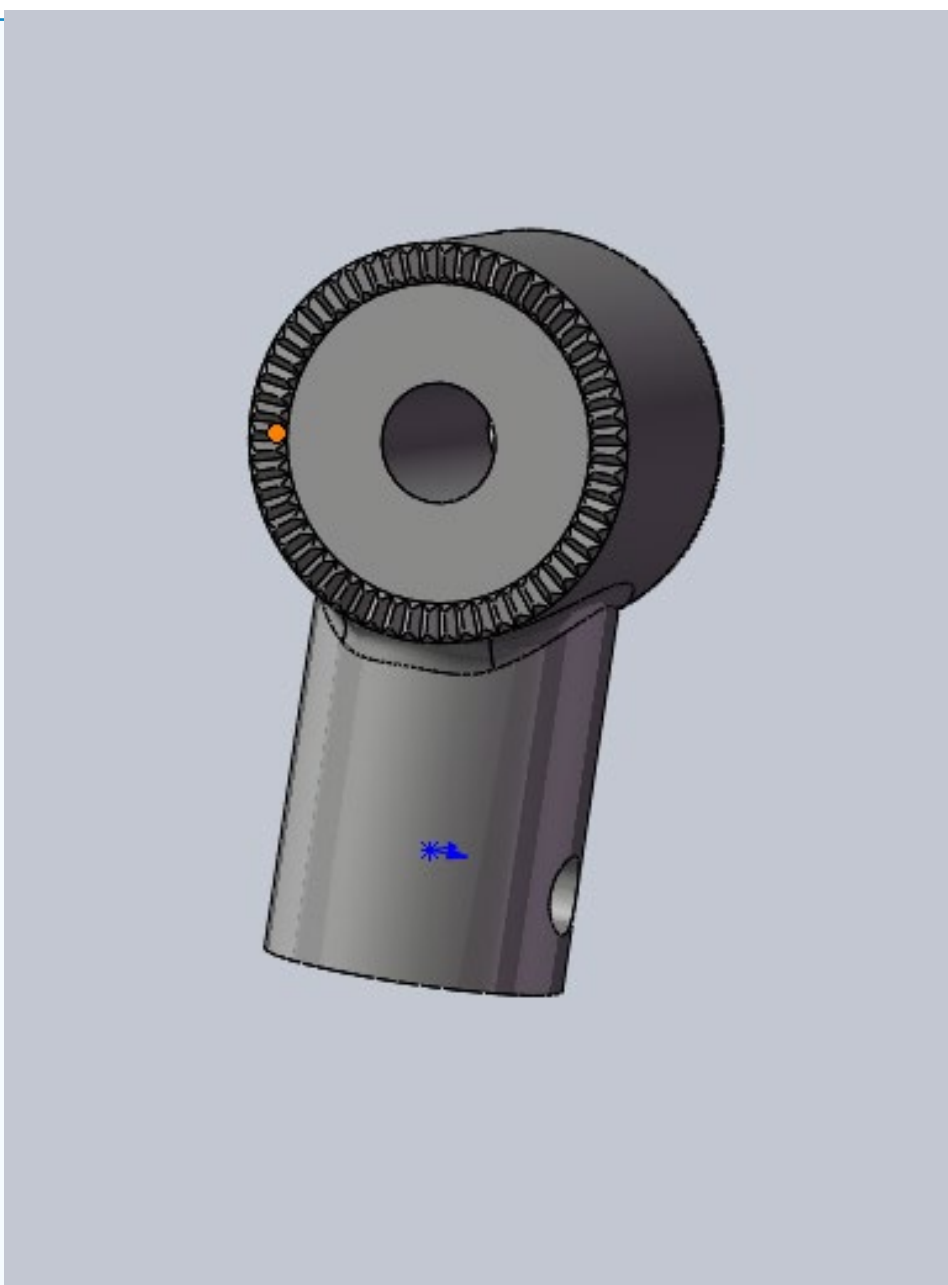
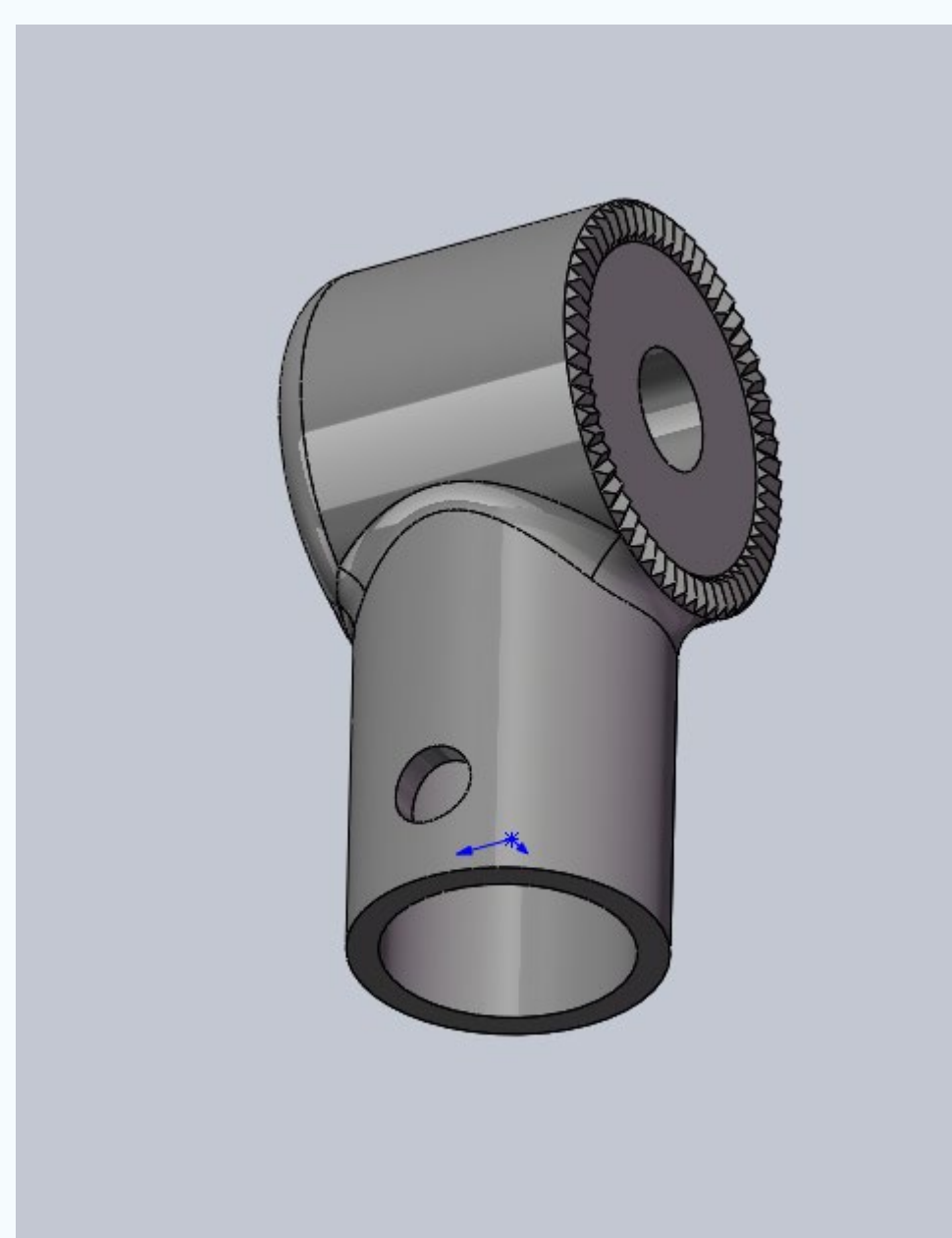
laptop support arm WEIHAN WANG

THE PROBLEM

First of all, my project idea comes from a mobile phone holder. On the one hand, it is clamped on the cylinder and connected by soft metal, and the other end is clamped on the mobile phone, so that you can free your hands while watching the video. This phone holder can indeed free your hands, but the disadvantages are also obvious. First, it cannot remain stable. Since the connecting rod is made of soft metal, it will shake when watching a video, which greatly affects the viewing experience of the viewer. In addition, the storage of mobile phone holders is also a problem. Since this soft metal cannot be folded for storage, the floor space for storage will be particularly large.

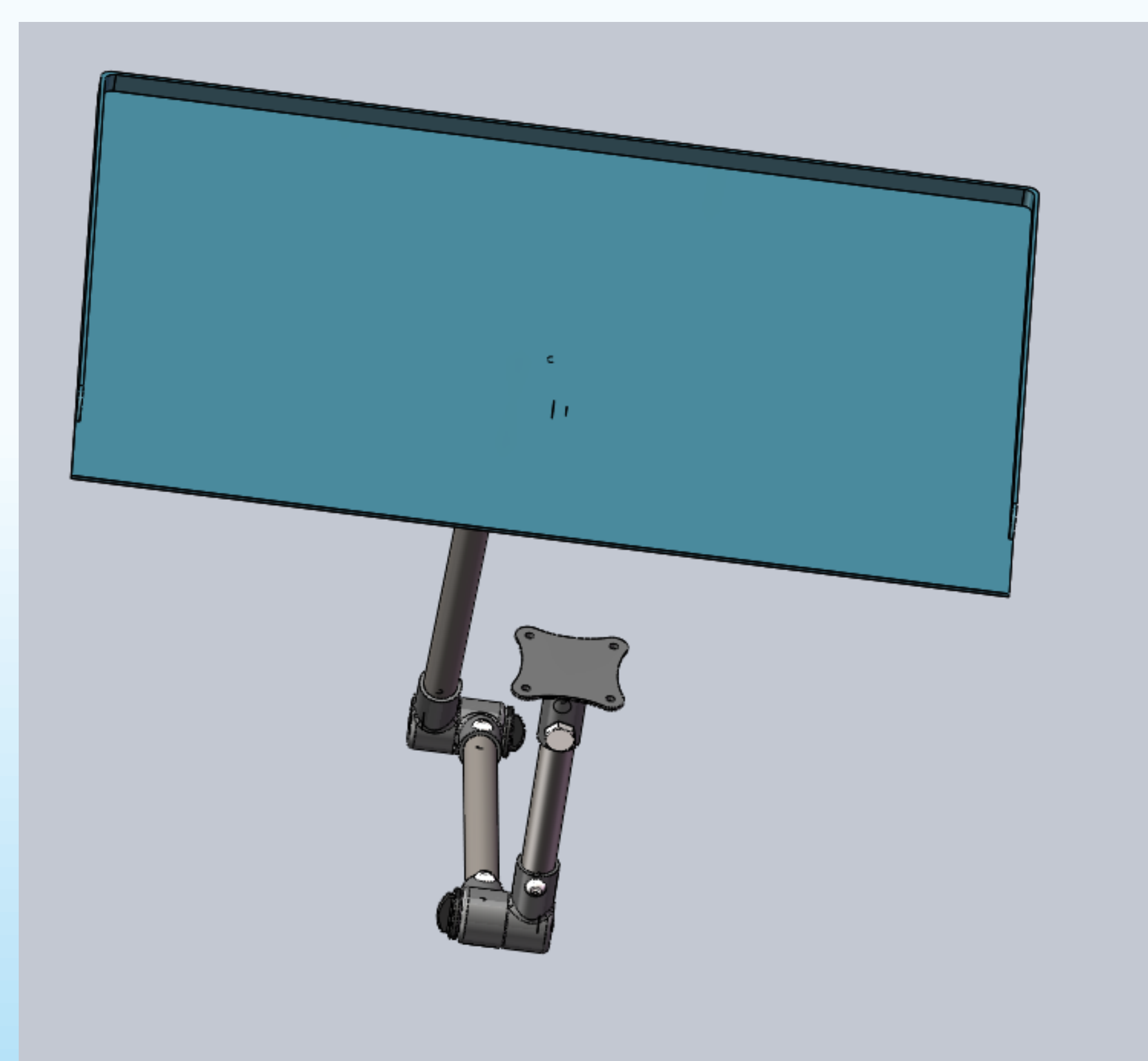
my design

My core design is my hinge. Compared with other hinges, the hinge I designed can rotate 360° on the plane and can be fixed at any angle. This is achieved by a full circle of circular sawtooth structure. With standard size screws and nuts, the bracket can be easily fixed at any angle to keep consumers comfortable for office or entertainment.



Design finished product

The whole assembly is not very complicated. Three core hinges plus three connecting aluminum rods are fixed under the chair by screw fasteners, and a table board is added at the other end. This is the design of my laptop support arm.



What can be improved

At present, my project still needs improvement. I think the biggest problem now is that my hinge can only rotate on one plane, which brings the limitations of the stand. If I can design a hinge that can rotate the sphere, the application range of the bracket will be greater, and I think its use will not be limited to the bracket.

THANKS

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