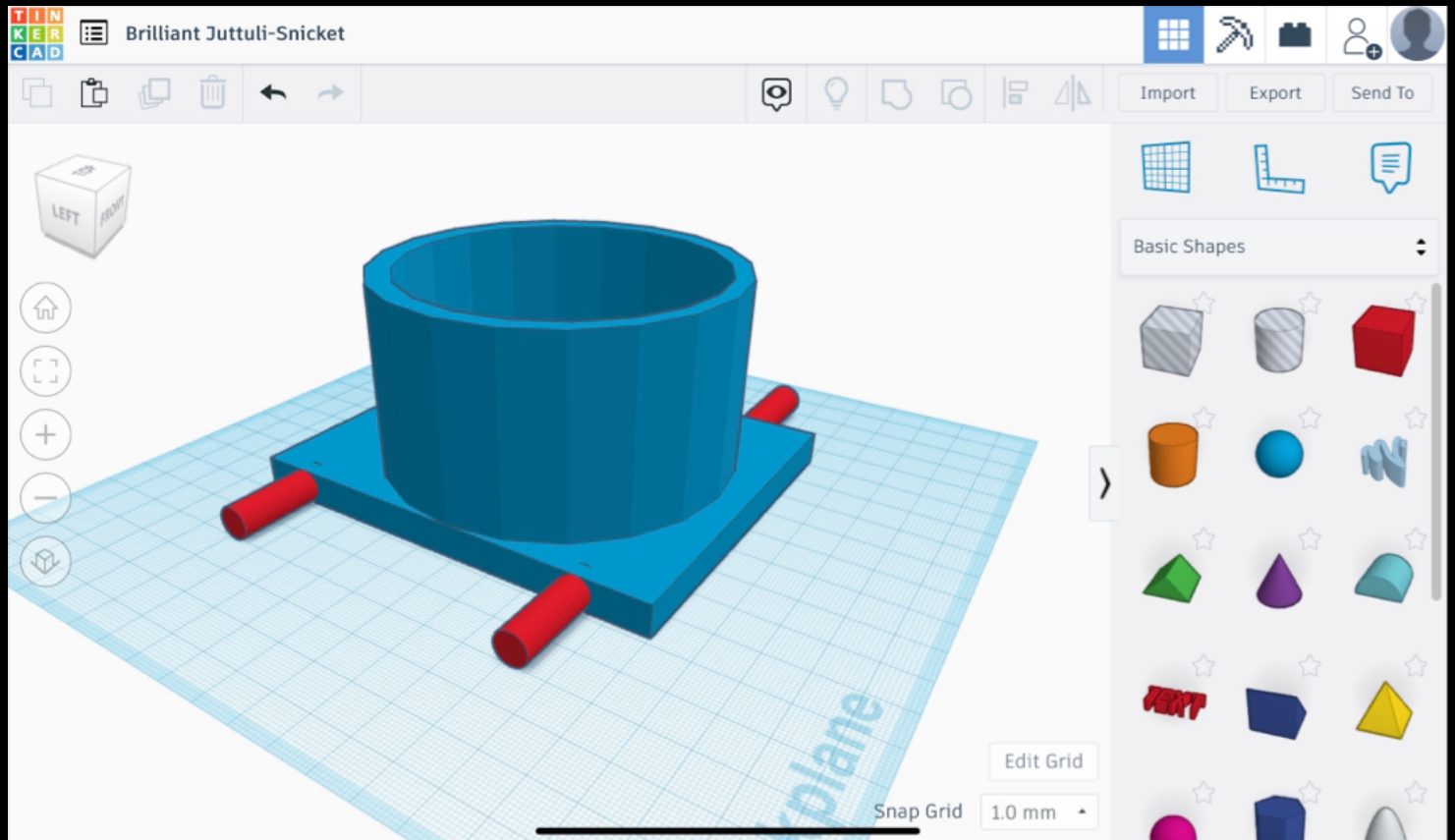
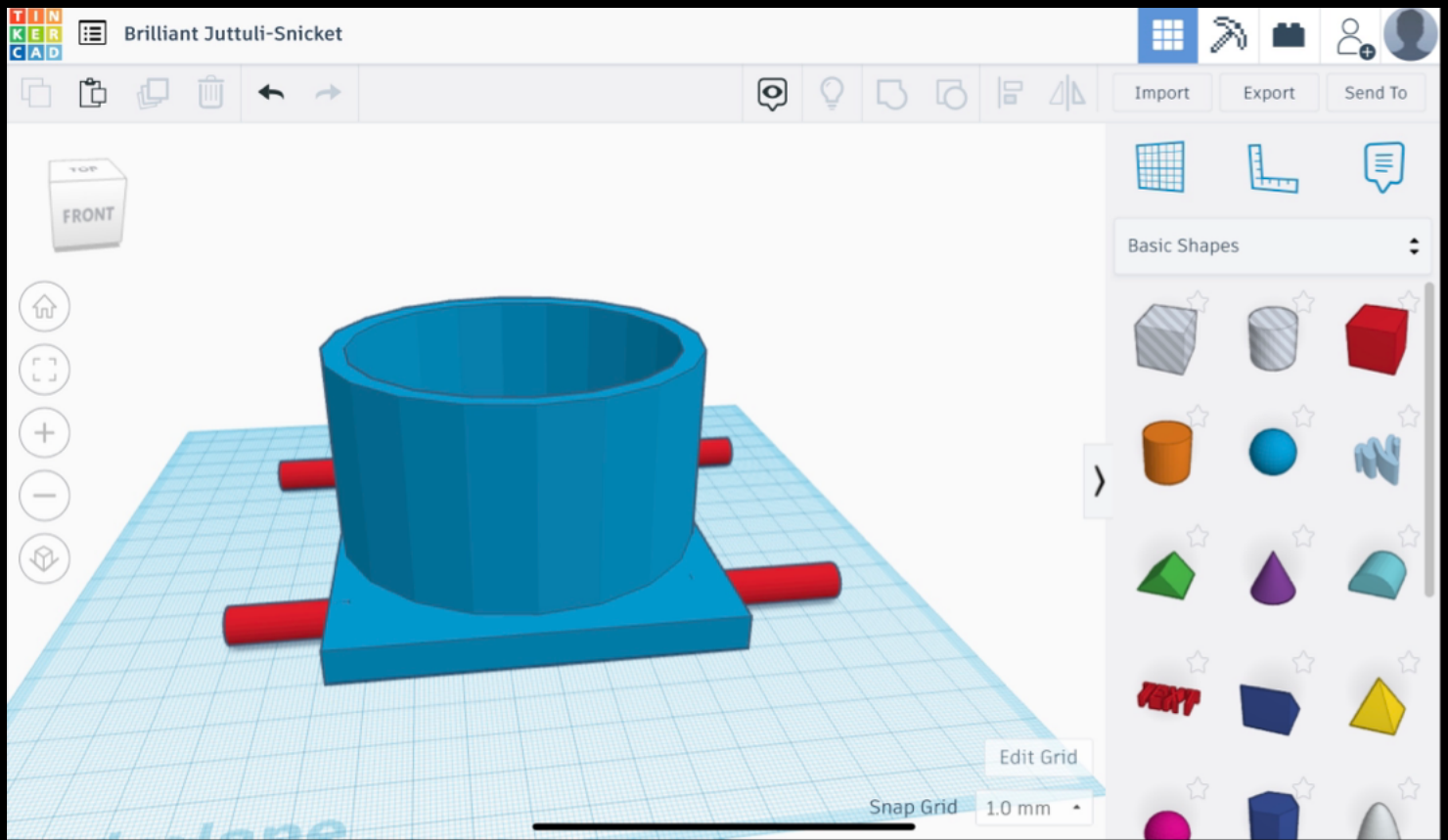


# Make it real Online challenge- The phone car

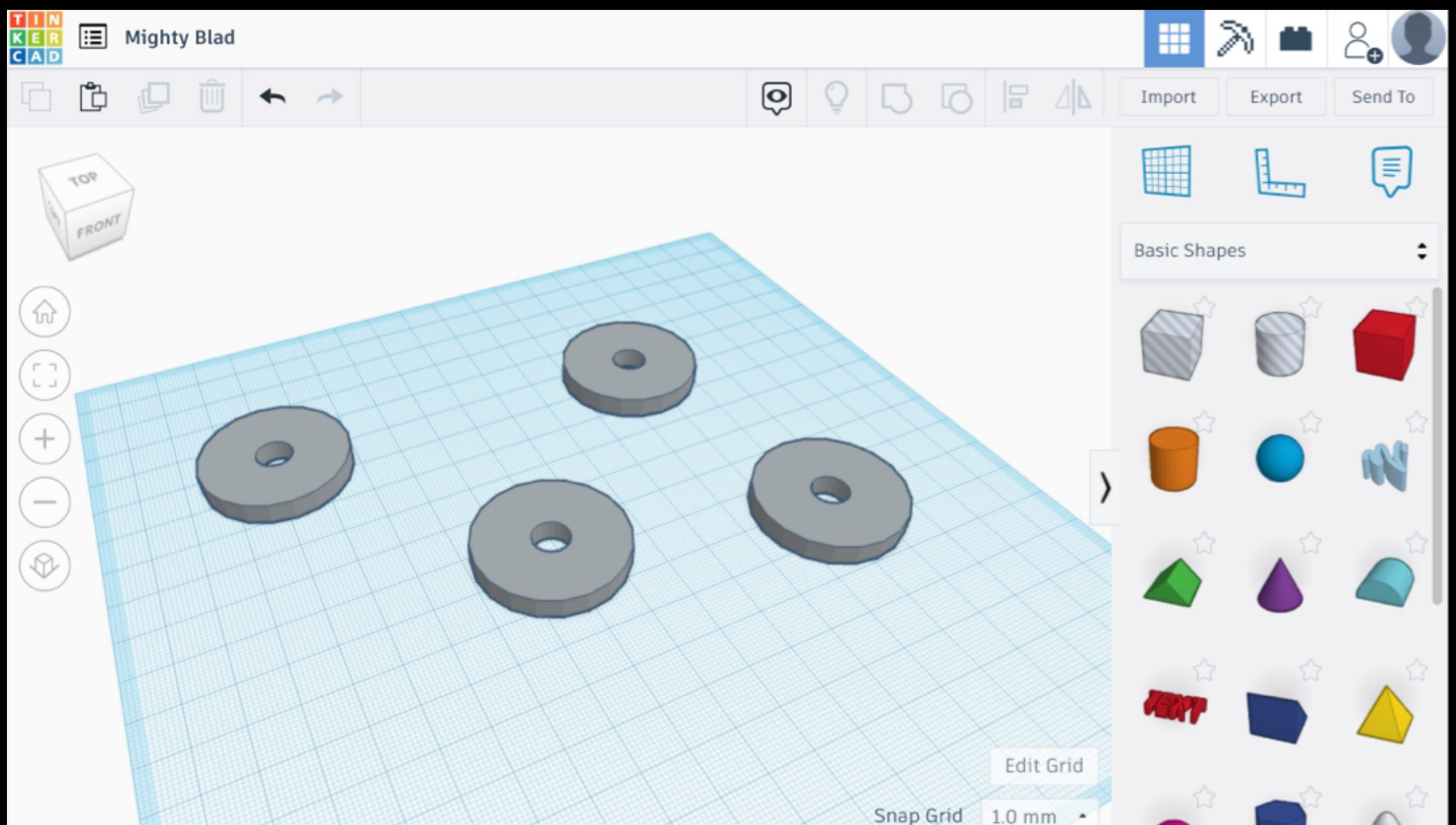
Rayan, Ishaan, Viyath - 21549F- Shatter Squad- London Barnet- Queen Elizabeth School

For this online challenge, we thought to ourselves, in a world full of technology and robots, which ones do we use most in our everyday life that we could improve. The answer was obvious- mobile phones. We thought how could these be improved, they are already so good. We finally came up with an idea- a tool that stabilises and smooths camera shots. All the shots that we had tried to take in the past of our robot, projects and other various things were all shaky, so this was a real problem we intended to fix. We measured Rayan's phone's width and got started on tinkercad. Our design was to basically have a car for my phone so that it could capture smooth clean shots.





Main body



Wheels

We designed the car in two parts. One was the main and the other was the wheels. For making the wheels, we made a cylinder, then made a hole in the cylinder then grouped the parts. To make the main part we used the same technique, but with different dimensions and put it on a square base. I also added sideways cylinders as axels. We 3d printed these two in school and

were very happy with the result.

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Front view

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Far view



Side view





Side view 2

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Back view

The phone fit in perfectly! It could rotate 360 degrees and even tilt downwards or upwards

depending on where the subject is. This device isn't meant for handheld recording, as gimbals already exist, but more for things that are on tables, still objects, or even a phone stand.

From this project, we learnt that leaving a little space in CAD for things fitting in is a very good idea. We also learnt how to work in a team and how 3d printing works!