



A Navigation Assistant for two wheelers which makes use of augmented reality to provide directional information to the driver.

THE PROBLEM

In the market today, there is a lack of a suitable solution for navigation on two wheelers. If a two wheeler wants to know where to go, they either need to use their phones or ask for directions, both of which are unreliable and have major safety concerns.

Our motive is to create a simple navigation device which is reliable, cheap and suitable for the Indian market.



THE PRODUCT

NAVIA is a an augmented reality based navigation device which provides real time information on the heads up display on the user.

It connects to the user's mobile phone and is operated via an application.

It provides directions, distance and emergency call notifications in real time. It also has a distress (SOS) button in case of emergencies.



THE PRODUCT

NAVIA uses the help of a pair of glasses to operate. These glasses can either be the standard ones which come with the product, or the user's own ones. NAVIA is compatible with almost all kinds of eyeglasses.

It is mounted on the spectacles through a velcro system. This system can also be reinforced with an elastic band, but our we observed through our prototype that only velcro was able to hold the product properly.



THE DESIGN

The design of the product is very minimal with a tight focus on functionality.

The main casing of the product is almost cuboidal, with one angled face to hold the mirror inside.

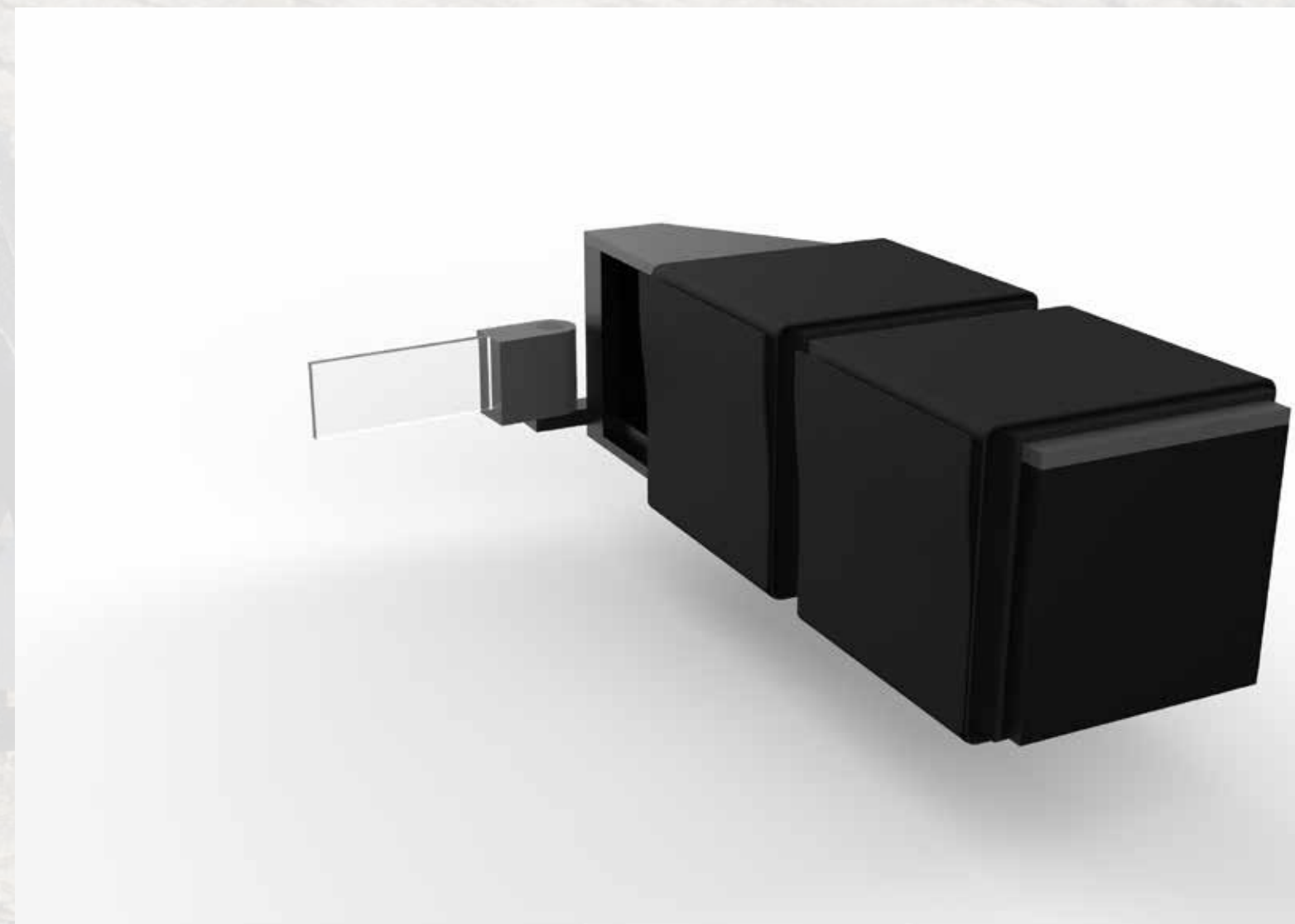
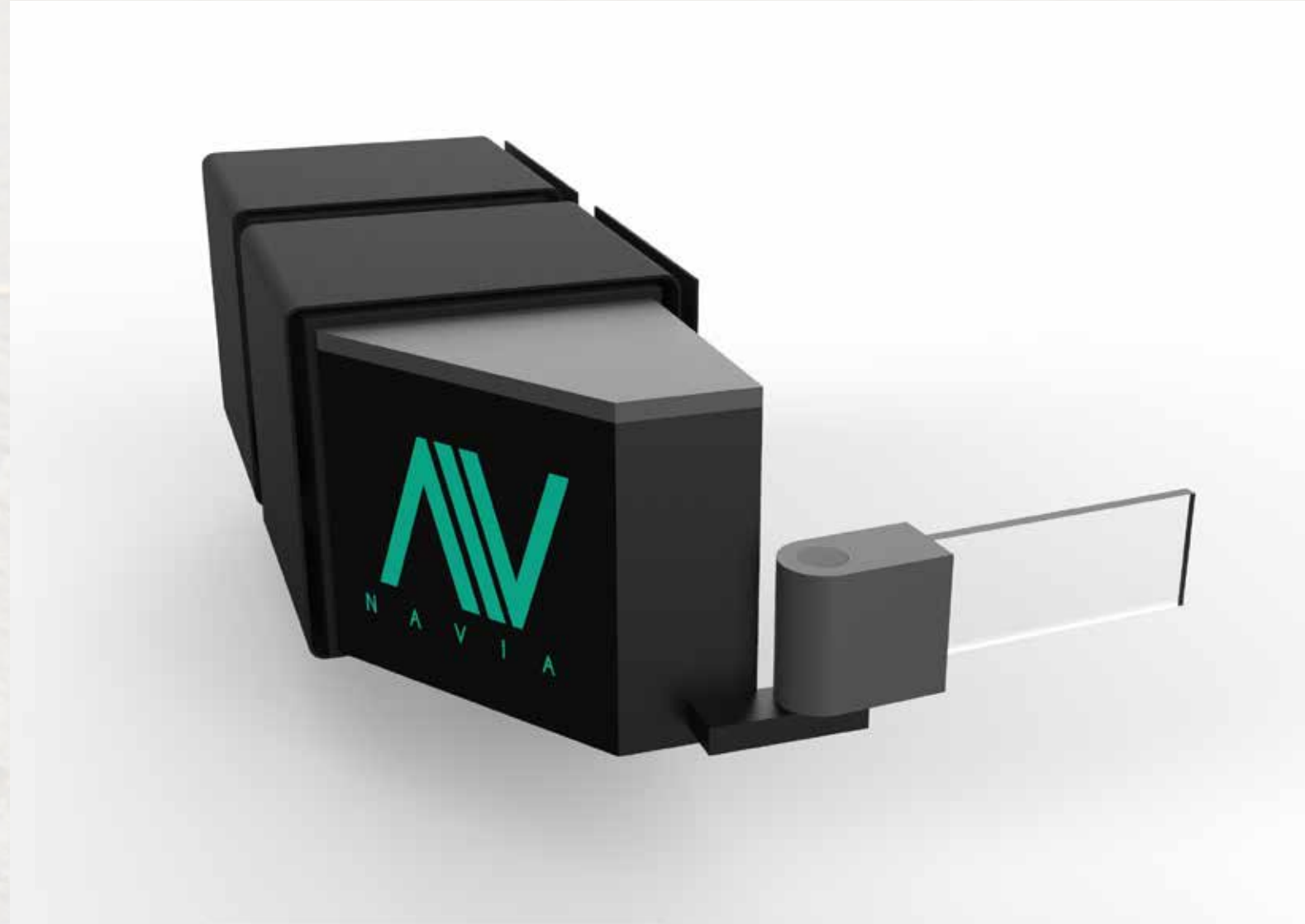
The lens holder in the front has a hinge so that the user can set the desired angle, and there are two velcro strips on the body to mount the eyeglasses.



THE DESIGN

There is a slight branding on the slant face, showing the logo of the product.
The colours used in the prototype were black and gray to give it a premium yet universal aesthetic.





DESIGN**RENDERS**



THE PROTOTYPE

For the course of this project, we made a fully functional prototype.

The main body of this prototype was 3D Printed to keep it accurate and well finished. It was then spray painted and the logo was added to it.

All the components fit in well and the velcro mount was sturdy and reliable. We tested it quite a few times and gained valuable feedback which helped us iterate.



THE PROTOTYPE



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 **THANK YOU**

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