

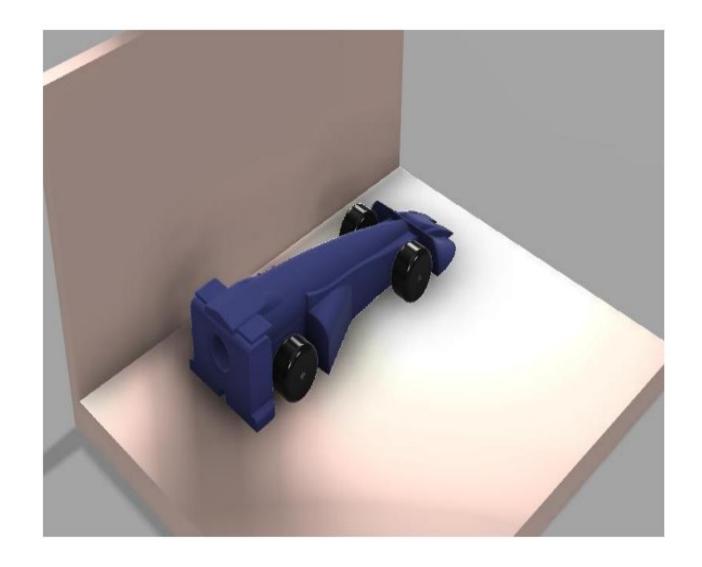
DESIGN & ENGINEERING





We are the future racers







TEAM PHOTON

We are the future racers



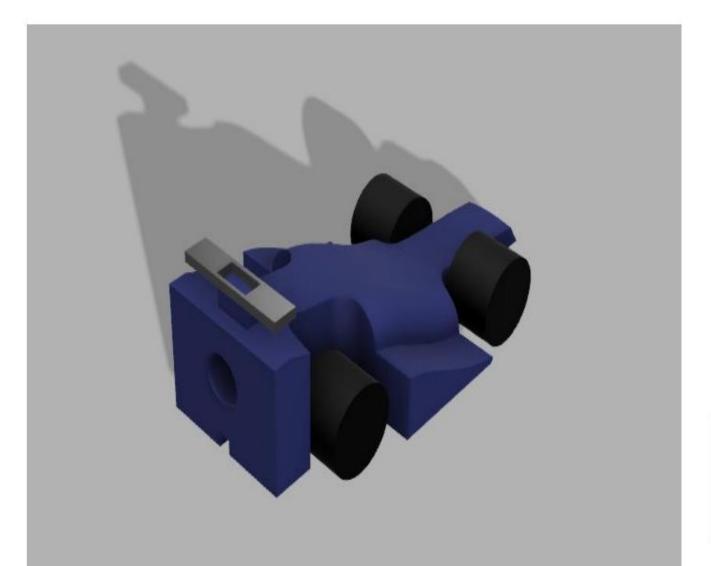
Our Ideas

We made three designs of our car -

- 1. Project Photon 1
- 2. TEJAS MK 2
- 3. TEJAS MarK 3

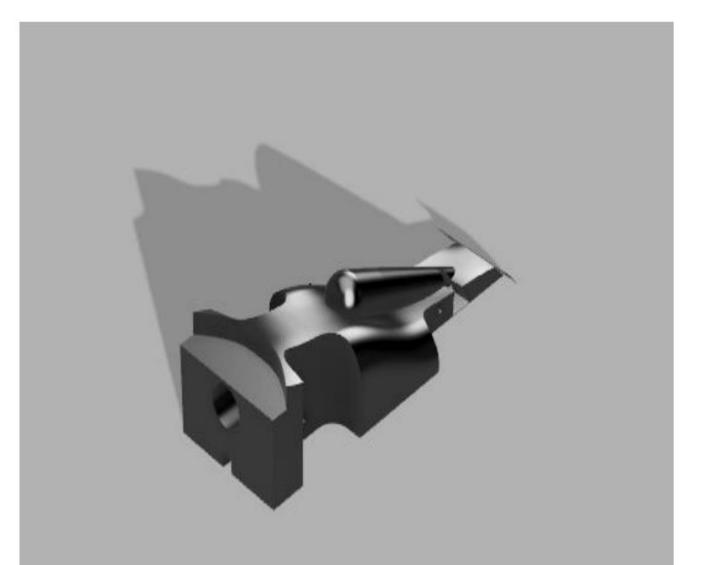


1. Project Photon1



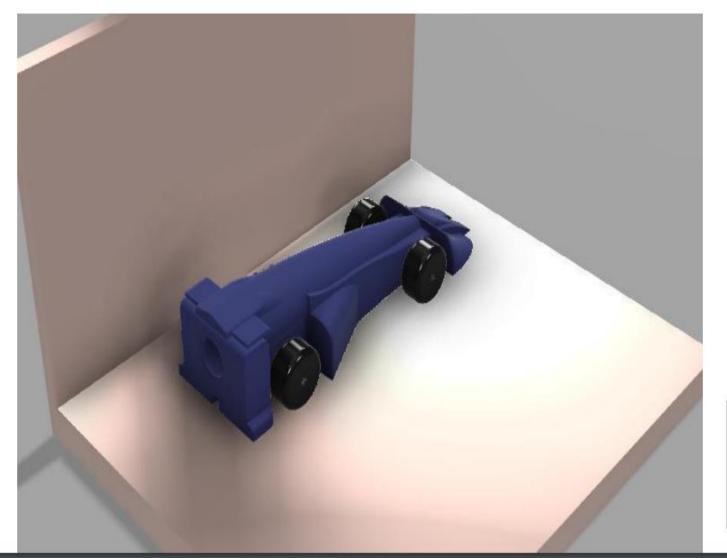


2. TEJAS MK 2



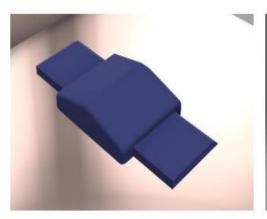


3. TEJAS Mark 3



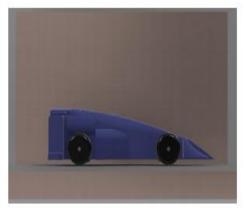


Research & Development









In our research we found three main points to reduce the drag

- 1. To give a support in the back tyre at their back
- 2. Try to give a slanted structure in the front for the air to pass
- 3. As much as we can made the body streamlined for decreasing the drag



We decided that structure of the car should be in such a way that the air has to pass and we search that if we apply a support at front our drag can be the maximum.

We also made our spoilers in slanting so there is a full path for the air to pass smoothly.

We found that if we cut the body, the drag would be less.

We made a structure in between the first and the second tyre in such a way that the air has no choice but to flow.

In short we just wanted no blockage in the air



Prototype Car TEJAS MARK 2

We know that TEJAS MK3 was final

But there is a saying

"Two are better than One"

following this, we chose TEJAS MK 2 as our prototype car

We wanted to show the use of all cars and do not let our designer's hard work fail





TEJAS MarK3



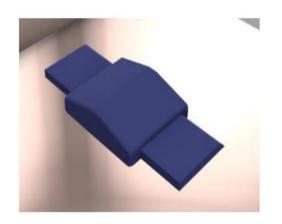




Principal View Front View Back View



TEJAS MarK3 - Parts



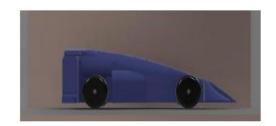




Front Spoilers



A Body Front Of Back Tyre



Cone in the Body



Manufacturing & Assembly

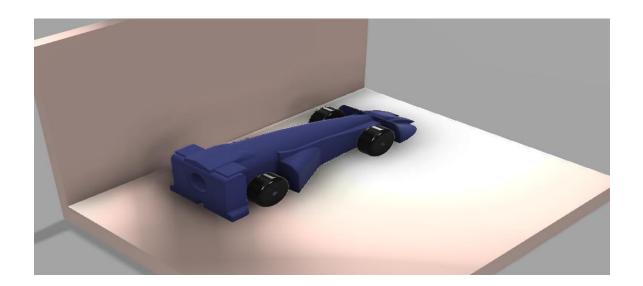




Testing

IT WAS THE MOST IMPORTANT PART WE DID THE FOLLOWING TO TEST OUR CAR

- WE CHECKED IT'S STABILITY BY THROWING IT UPSIDE DOWN
- WE HIT THE FRONT PART WITH THE DESK AND IT DIDN'TT BROKE
- WE MADE WIND TUNNEL AND CHECKED IT'S STABILITY WITH THE AIR
- WE ALSO WENT TO SETH AR JAIPURIA ON 23 RD FOR THE TRACK TESTING



Orthographic

