BEVISIONEERS

THE MERCEDES-BENZ FELLOWSHIP

Project Checkpoint 8
Prototyping Chronicles

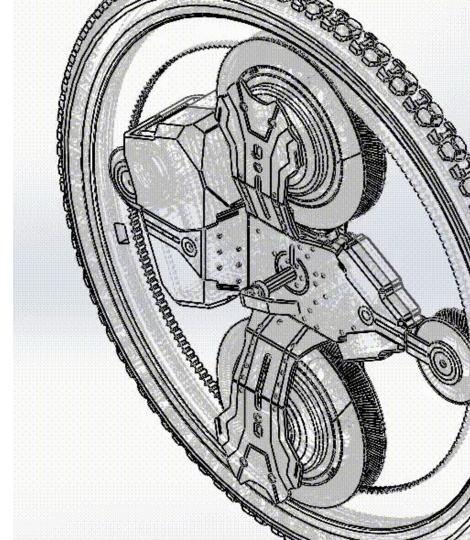
How to

Project Checkpoint 8: Prototyping Chronicles

Showcase your failed prototyping attempts, reflect on the lessons learned from the first attempt, and demonstrate how each failure brought you closer to a refined solution.

Documenting and reflecting on your versions of prototype gives your voice credibility and depth.

This Checkpoint can be presented in either a slide deck or video format. You can share your video in a hyperlink in your slide deck.



Project Checkpoint 8: Prototyping Chronicles - 🗲



What we hoped to achieve.

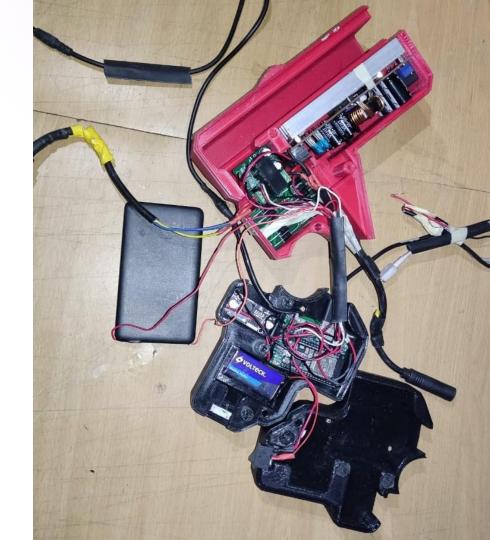
In this part the collection and conditioning system for electrical energy was created.

Why didn't the attempt work?

It's function was to collect, convert and maintain the level of voltage and current from the electrical energy generator.

Key lessons learned from each failure.

What we learned from this failure was not to try to cover 10 solutions in one go, but to focus on one and move forward from there.



Project Checkpoint 8: Prototyping Chronicles - 🌞

What we hoped to achieve.

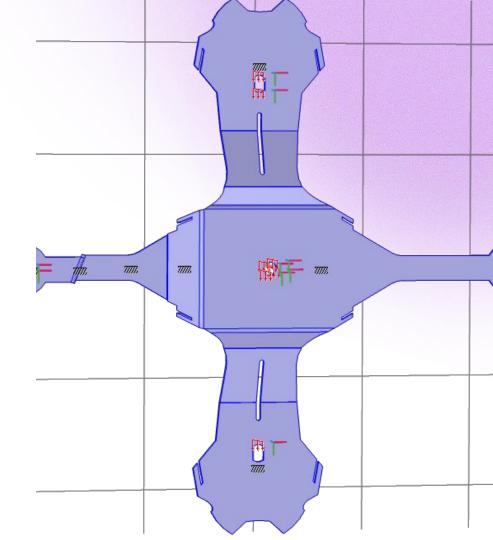
 In this part we tried to calculate and test if the mechanical structure could support a maximum weight of 120 kg (264.5 pounds), considering impact situations.

Why didn't the attempt work?

 Because we simulated the mechanical design with CAD software like SolidWorks and COMSOL Multiphysics.

Key lessons learned from each failure.

The mechanical design can be very well made with software but the manufacture has to be tested with cardboard or physical models first.



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Project Checkpoint 8: Prototyping Chronicles - 🛟



- What we hoped to achieve.
 - This was a very fulfilling but difficult part of the development because we had to learn to use a 3D printer in record time.

Why didn't the attempt work?

- It worked because we broke down, tested, bought materialis, add ons, and watched tutorials in a very persistent way until we succeeded.
- **Key lessons learned from each failure.**
 - Persistence and research is key to create something new.

