

# F.A.S.T

To create the safest school bus in the world

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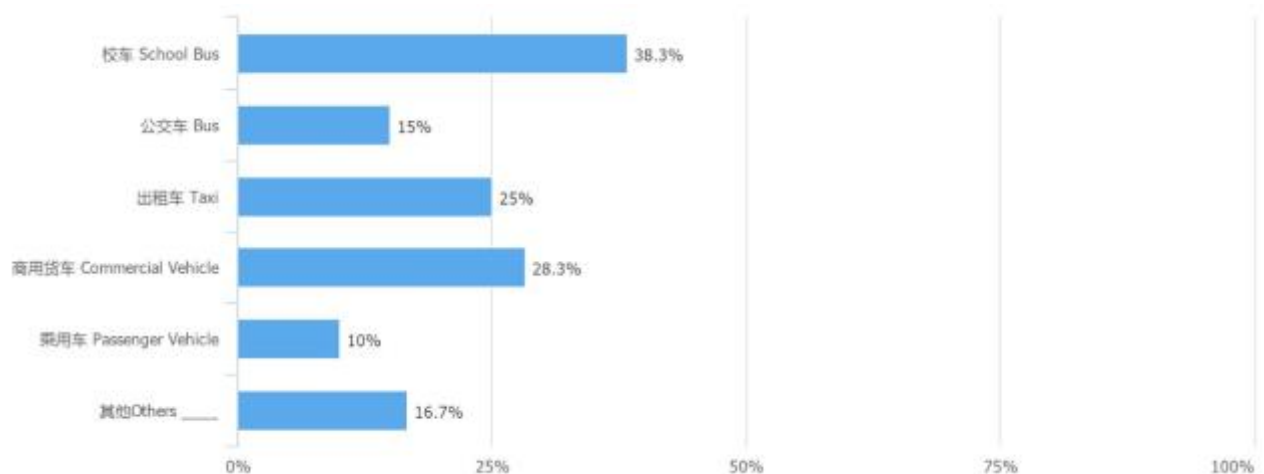
**Design Group:** Piao Zhouyuan, Hania, Akimi, Hu Die, Calvin Guo

Before starting our introduction of our car model, our team intends to share a short story that leads us to our idea of this model. I believe many of us had the experience of taking a **school bus**. The whole idea started with a member in our group talking about the dissatisfaction of his experience in the school bus. Considering all the negative feedback, our team started with brainstorming and in-depth discussions on how to create a more comfortable and appropriate school bus in terms of the actual needs of the end user – the students' point of view.

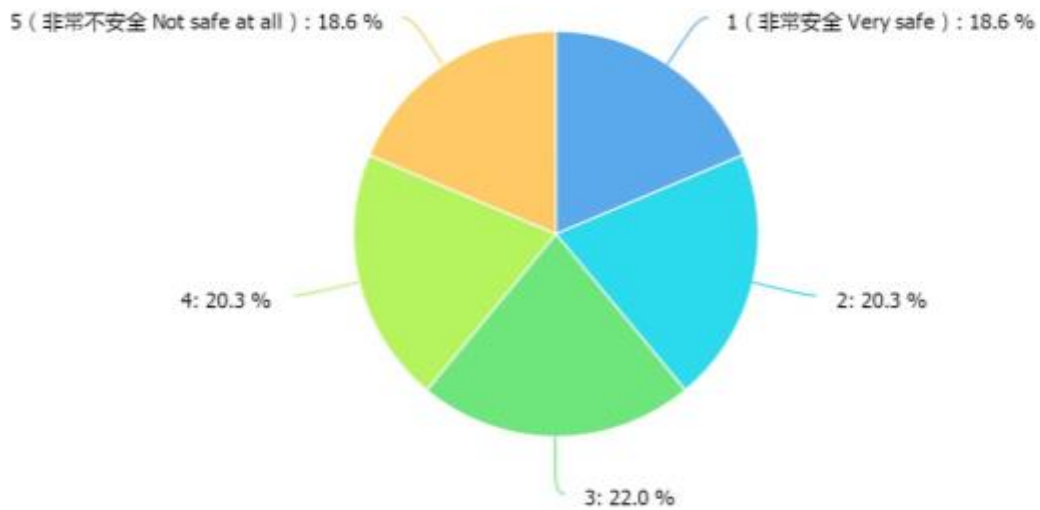
After our team conducted paper surveys and online surveys inside and outside of the school, we established the plan of a total new conceptual school bus based on the survey results.

## Survey Results:

1. 请问你觉得目前最危险的车是哪种车？ Which type of car do you think is the most dangerous one?



## 2.你觉得目前的校车是否安全？ Do you think the school bus is safe enough?



## 3.你认为现在校车最值得改进的方面是？

### What kind of improvements can we make to get the school bus more comfortable?

可以学习美国的校车，足够安全，从山上摔下去也不会变形。

Educate the drivers and ayis on the bus so that the drivers could do safe driving and the ayis could carefully do their best to take care of the kids on the bus. And maybe the schools could make rules for school buses like no standing in the middle of the ride and must put the seat belt on so that the kids would beh ave well and be safe following those rules.

可以“更新”一些配置

司机

速度太快

位子很小

方便学生校车上睡觉（舒适度）

bring the 쿠션

When the buss passes let the cars have distance from the school bus

可以放一个电视机给大家看电视

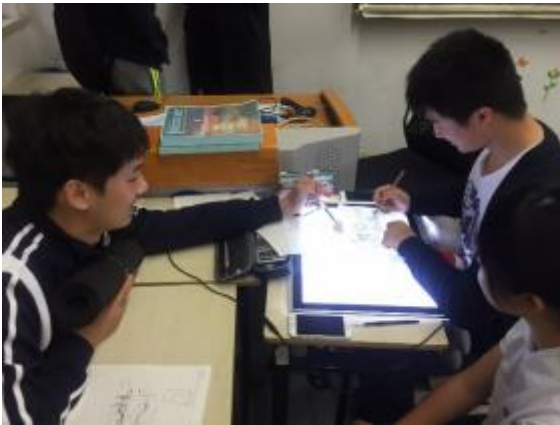
外观应该更吸引小孩子，让周围人也能一眼认出这是校车，这样不但能提高学生上学的兴趣，也能使周围人注意，提高安全性。

刹车

**Our plan concluded few major ideas:**

- Having two doors instead of one
- Placing a camera in the back of the school bus
- When the bus is coming to a stop, there will be lights to warn other vehicles
- The windows will be ultraviolet-proof to protect the eyes
- A stop sign could warn passing vehicles
- An awning that could be extended on rainy days so students don't necessarily need to use an umbrella
- Extended space (between, under or above) seats so school bags could be placed

Therefore, we split into two main groups: The design group and the tech group. The design group will be responsible for the school bus's inner and outer designs while the tech group will be responsible of the realization of the designs.

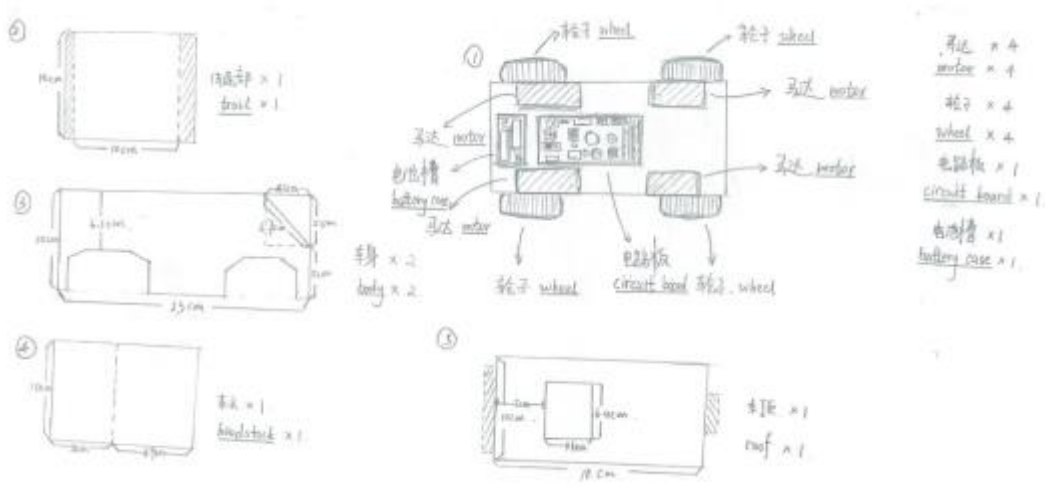


Design Group



Tech Group

**Design Draft:**



## Finalized Model and Key features

Narrow Door



Reflective Stripe and lamp ring for alert



Stop Sign and Evacuation Door



Surveillance Camera



Air Purification System



Anti UV Glass Window

