

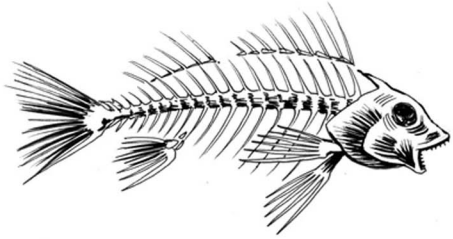
The background of the slide is a solid dark red color. It is decorated with several sharp, angular, torn-paper-like shapes in a lighter red and black, creating a sense of motion and speed. The shapes are primarily located in the top left, top right, and bottom right corners, with some extending from the left edge.

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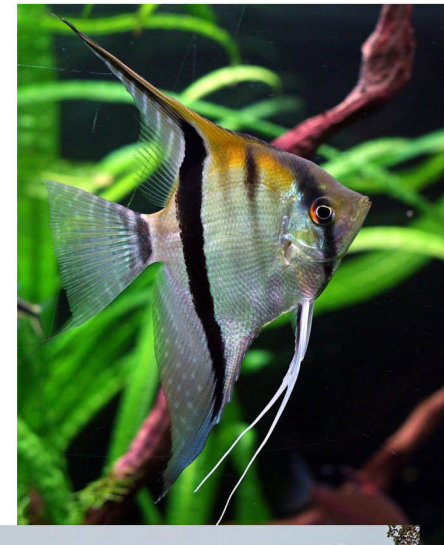
The Hybrid Super Bike

Christian White

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MoodBoard

Project Rational

I've decided to design and look into the future for Aprilia motorcycles on this project

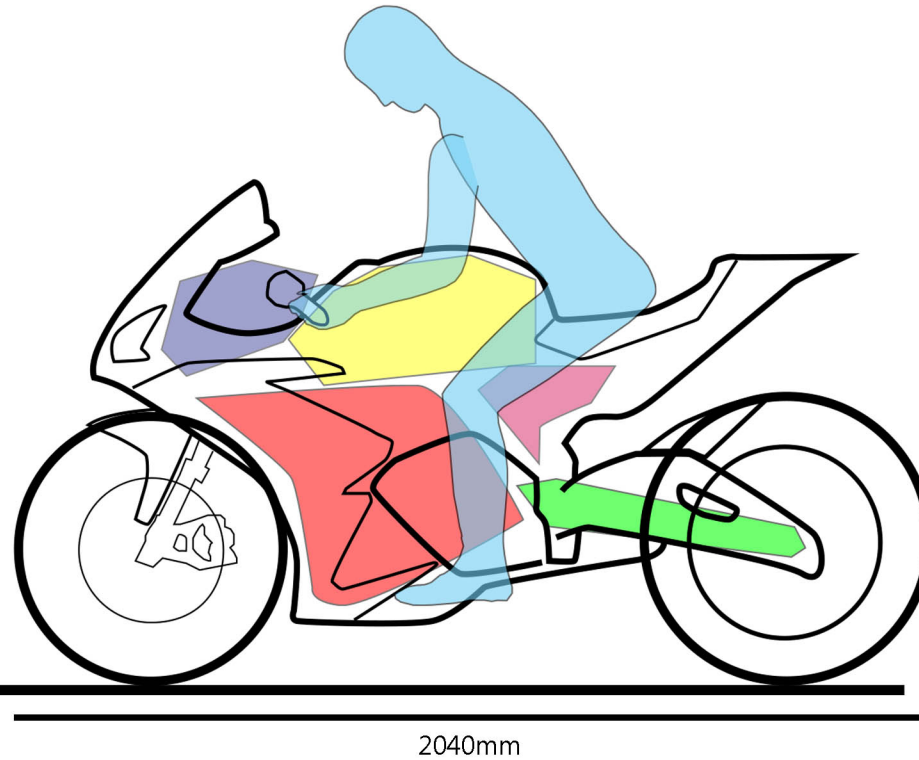
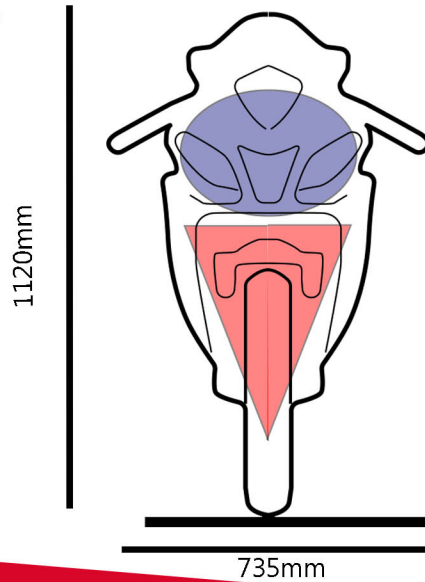
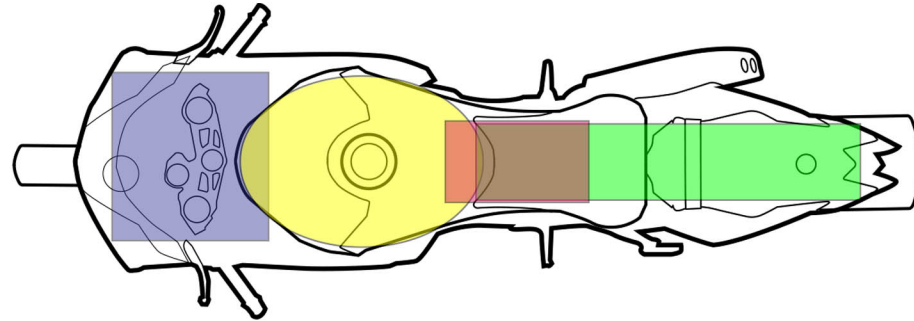
The project I have decided to go ahead with is a hybrid powered motorbike. Although Motorbikes aren't included in the 2030 petrol ban like cars are, I thought motorbikes will have to follow suit at some point and therefore creating a hybrid powered motorbike could be pushing innovation in the motorbike market. A hybrid system could also make for a very engaging motorbike experience too. The battery motor could fill in for when the engine is at its weakest in the lower RPMs too. This instant torque matched with the top end power of a superbike engine will make for a very quick motorbike experience.

The bike could also be run purely on electric when pottering around towns and villages which reduces both noise and air pollution in residential areas however the engine can spring into life when needed when faced with a twisting B-road or race track which can roar to 11000 rpm.

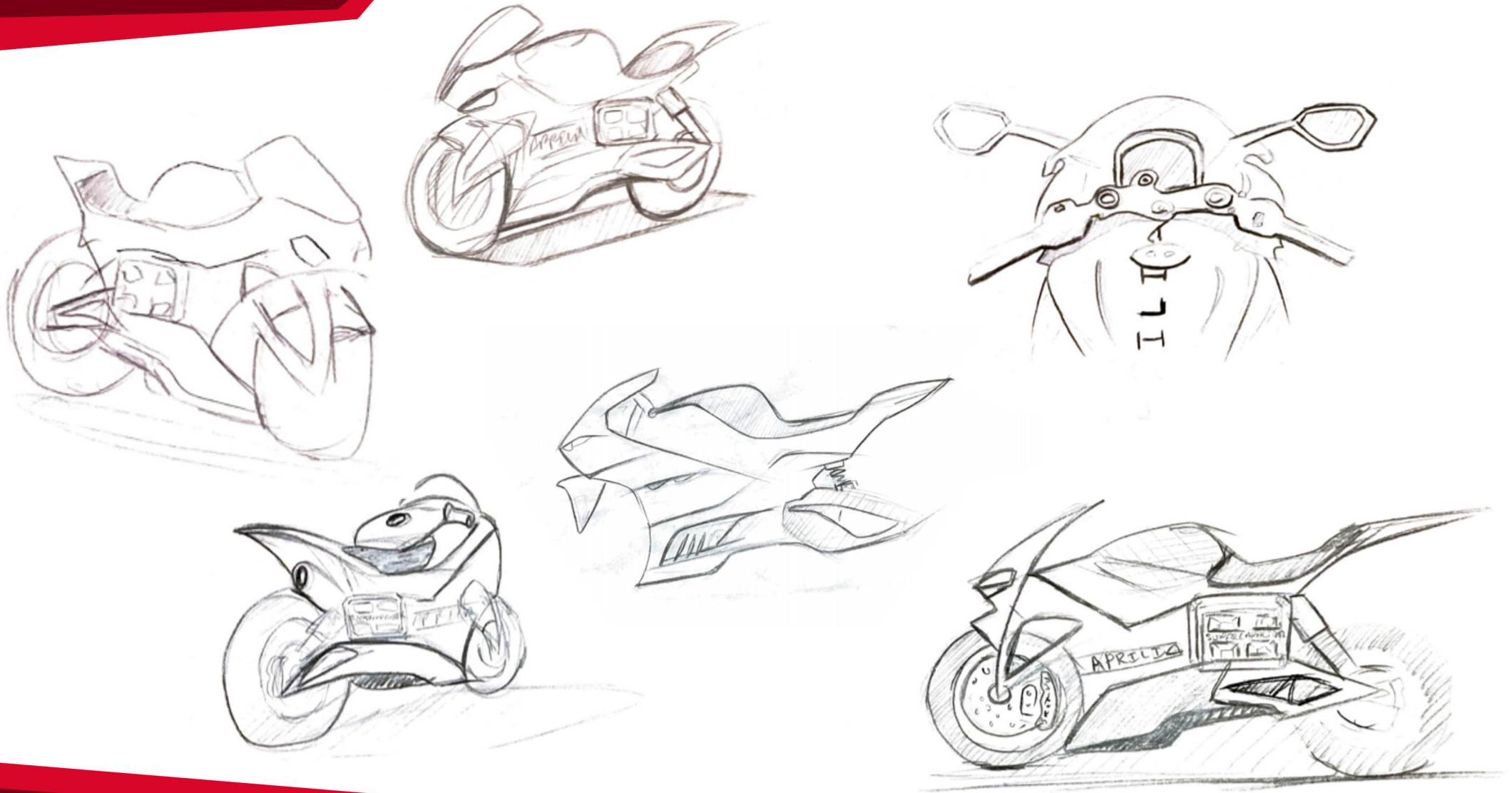
The bike will maintain a normal super bike look however I plan to make the bike more aerodynamic to eek out some extra mileage when the bike is running on battery power alone so therefore a smooth and larger cowling will be present. This will also be beneficial to cover up the extra electrical gubbins that this car will feature. Packaging may be a little bit of issue with trying to find the extra space. I reckon that research and product development could over come this though with R and D into smaller and more powerful motor and batteries. The motor can also be incorporated into the hub.

The battery could also be not a battery at all. Aprilia being a premium brand could develop a supercapacitor like what Lamborghini used with the Aventador Sian. This proved to be a successful way to produce power in a light and compact way however may not be suitable for prolonged periods of electric riding.

-  - Steering gear and instrument clusters
-  - Male Ergo 80th Percentile
-  - Battery/Super capacitor and motor
-  - Fuel Tank
-  - Drivetrain
-  - Engine

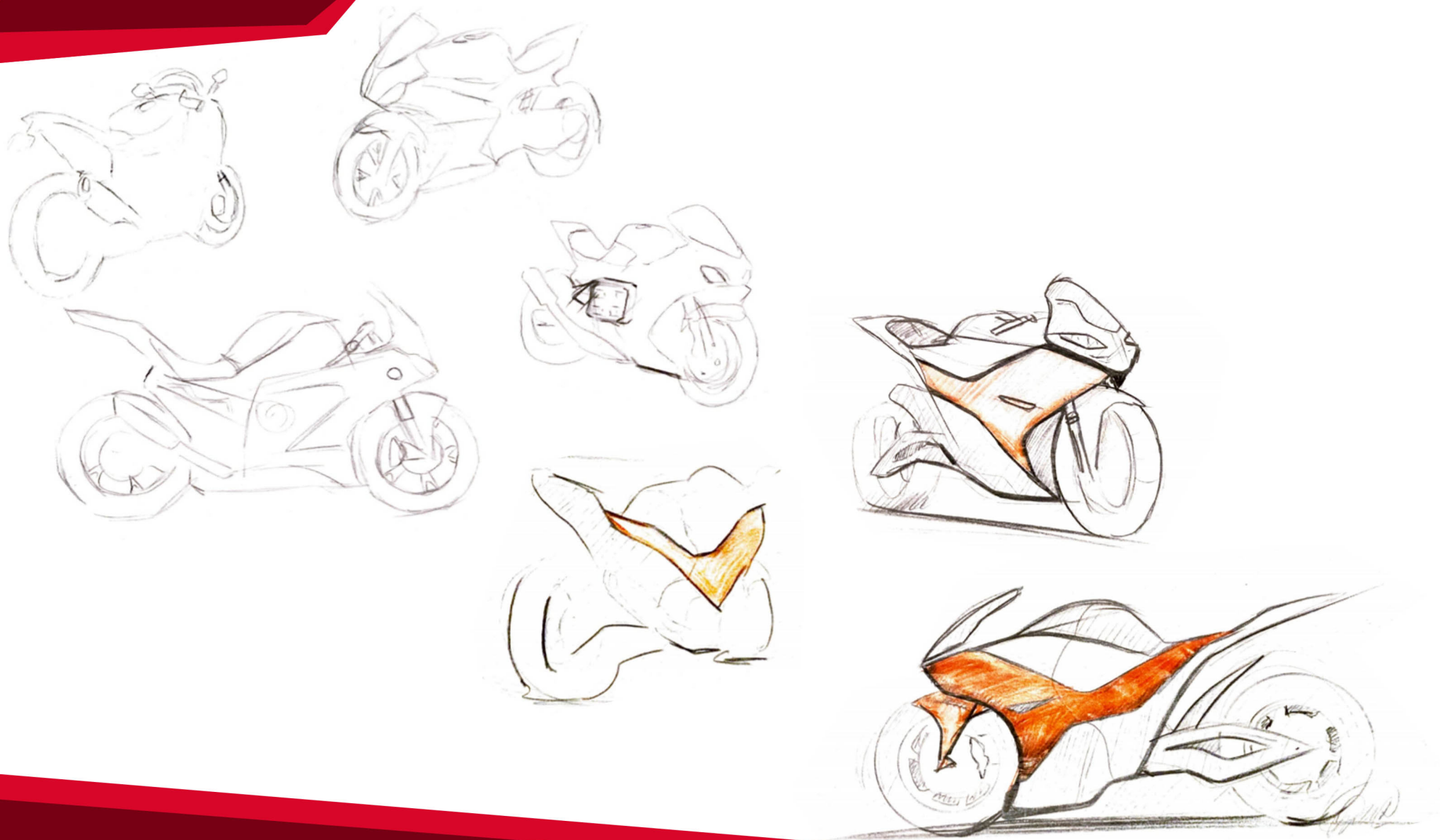


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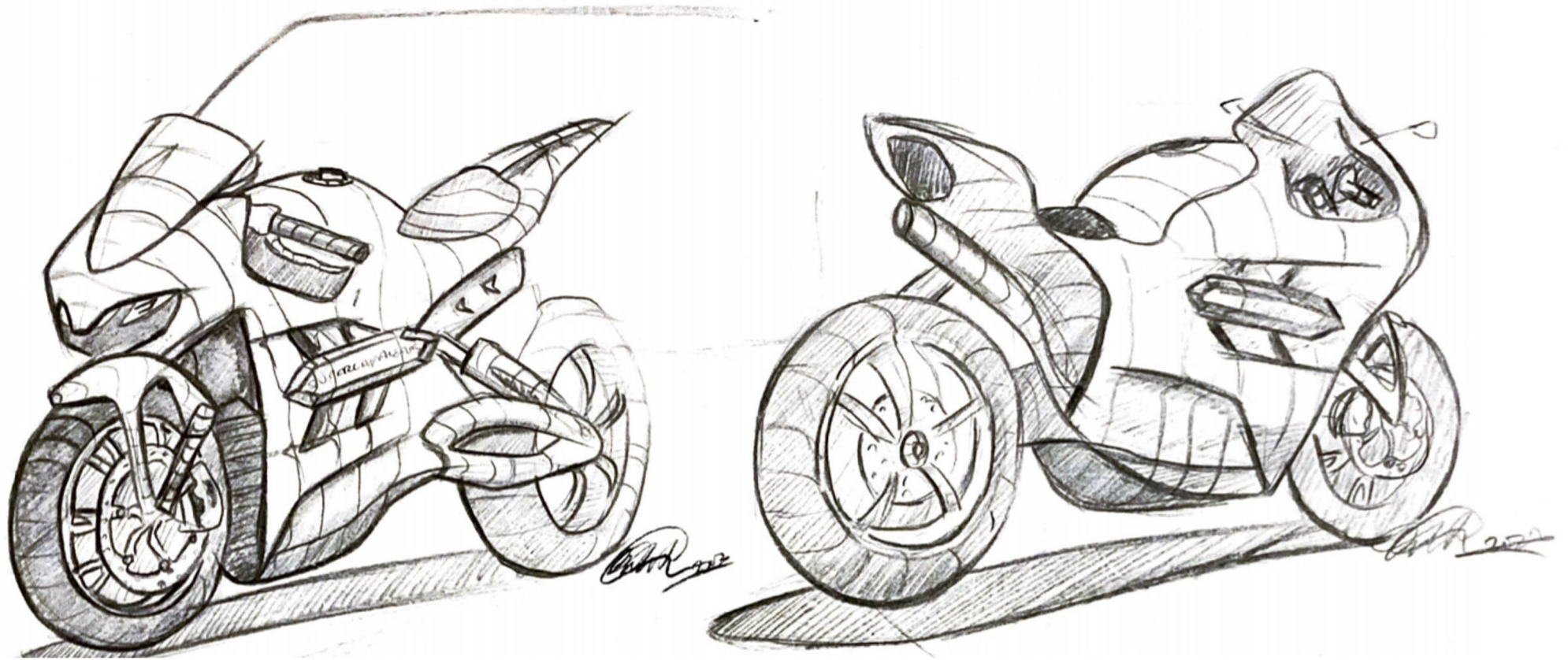
Sketching

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Sketching

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The Design