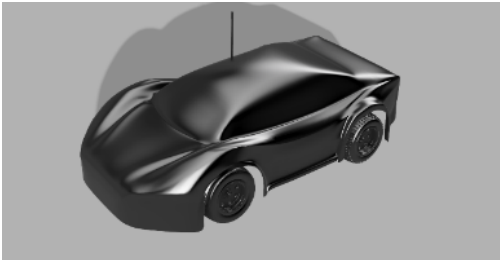


Industrial Design Students from Georgia Tech Compete in SPE Radio Controlled Car Race and Design Competition

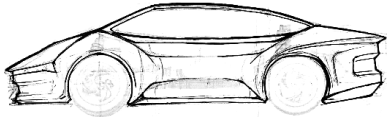


Final design for the 2018 SPE RC Car Competition by Georgia Tech Team 1 members Ryan Fuller and Karina Patricia

Last year, Georgia Tech Industrial Design students were granted the opportunity to compete in the 2018 SPE Thermoforming RC Car Competition which took place in Fort Worth, Texas. The RC car design competition involved designing, thermoforming, decorating, and racing a 1/10th scale RC car body or "shell". Among the group of five students, our team, comprising of Ryan Fuller and Karina Patricia, stepped up as one of



decided that this competition would be a rewarding experience and so we moved forward with designing our car.



three Georgia Tech teams.

After Robert Browning, who eventually became our sponsor, came to our school as a guest lecturer in late 2017, we were inspired by the opportunity to gain design experience from projects outside our ID curriculum. We

Over the summer, upon receiving the RC car from Robert, we both began ideating and developing concepts using the Fusion 360 CAD software. Our ideas ranged from making a sleek, shorter version of existing cars to an oversized low-rider.

Taking advantage of the Fusion 360 shared folder, we compared our preliminary CAD

models. Using Karina's sketches and Ryan's design ideas, we managed to refine our 3D models and settle on three refined concepts. Robert provided us with valuable feedback on thermoforming constraints such as draft angles which aided us in making final edits.

the best design award and the people's choice award. In addition, Ryan's driving led the team to win the racing bracket. We'd like to dearly thank Robert Browning as well as all our sponsors for their assistance in our achievement.



Our final design would combine features from each of our refined concepts. We then acquired a CNC cut mold of the design for thermoforming and formed three plastic models using the thermoforming machine in our Industrial Design Studio.

Then came the time to decorate and perfect our best model. Inspired by Lamborghini and Ferrari paint schemes, we settled on a two-tone pattern that adds more dimension to the curves on the form. We also decided that adding LED lights and following Robert's suggestion to add a rear spoiler would really make the car stand out.

Finally, after painting and decorating our model, it was time to compete in Fort Worth, Texas. Our design led our team to win both

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