

Activities

Team Jatayu

The go-kart will be built from the ground up to maximize the efficient use of space, and to ensure that the needs of the client are met. We approached our design by considering all possible alternatives for a system & modeling them in CAD software like SOLIDWORKS and subjected to analysis using ANSYS 14.5 FEA software. Based on analysis result, the model was modified and retested and a final design was frozen. The design process of the vehicle is iterative and is based on various engineering and reverse engineering processes depending upon the availability, cost and other such factors. So the design process focuses on following objectives: safety and ergonomics, serviceability, strength, ruggedness, standardization, cost and aesthetics. We approached our design by considering all possible alternatives for a system and modeling them in CAD software SOLIDWORKS and subjected to analysis using ANSYS based on analysis result, the model was modified and retested and a final design was fixed. The design process of the vehicle is based on various engineering aspects depending upon:

- Safety and Ergonomics

- Market Availability
- Cost of the Components
- Safe Engineering Practices

