



Composite Downforce Device



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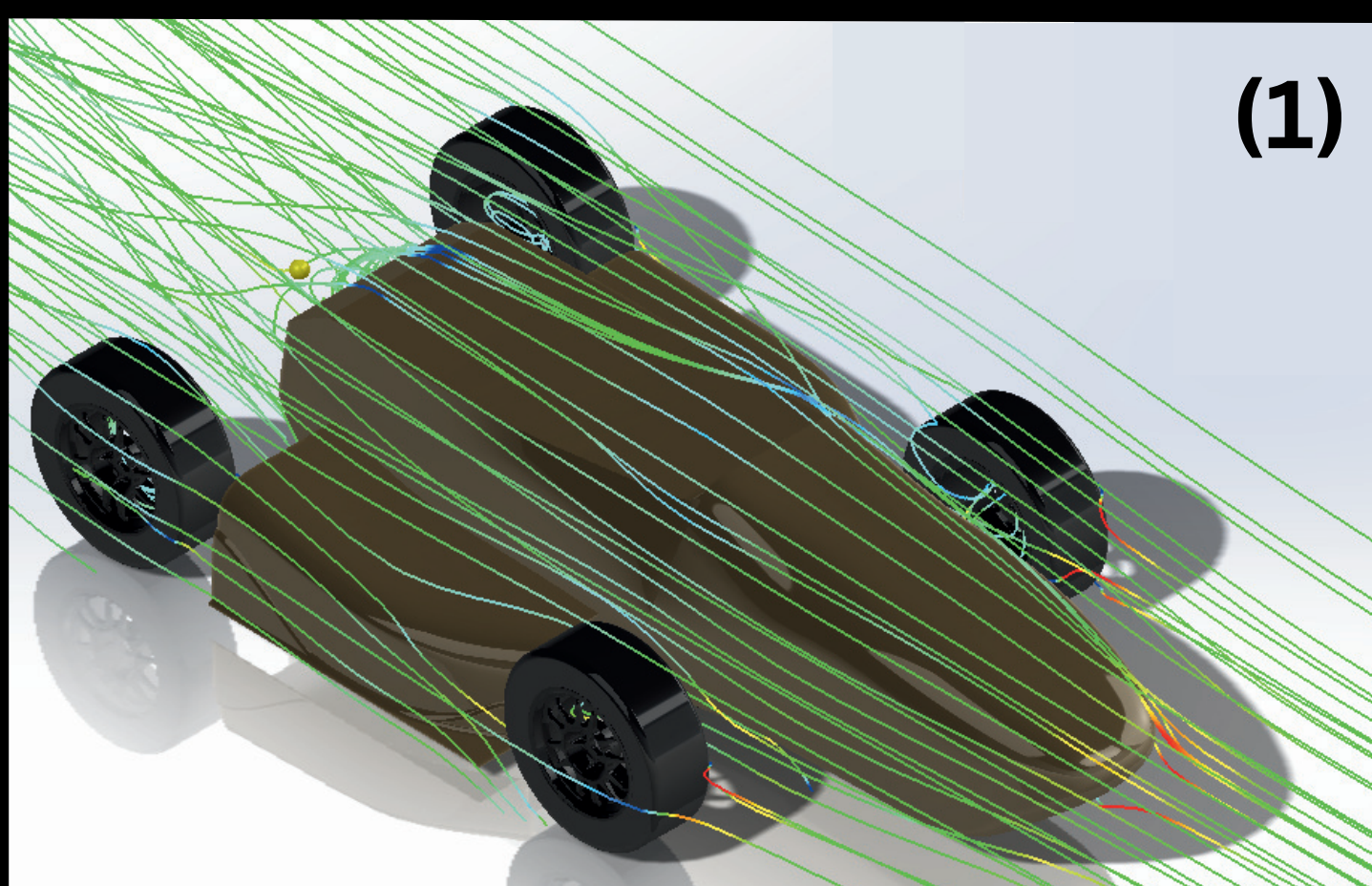
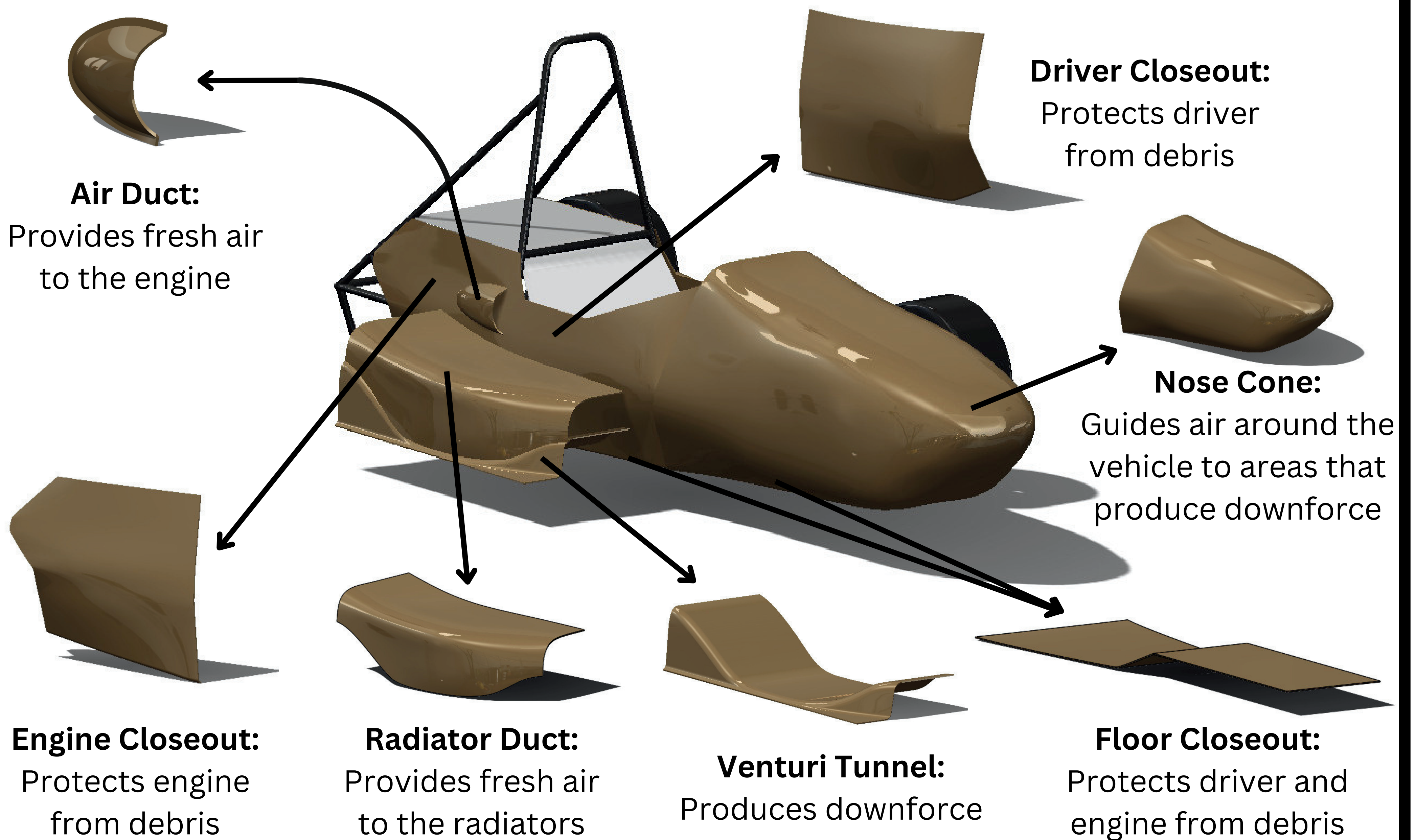
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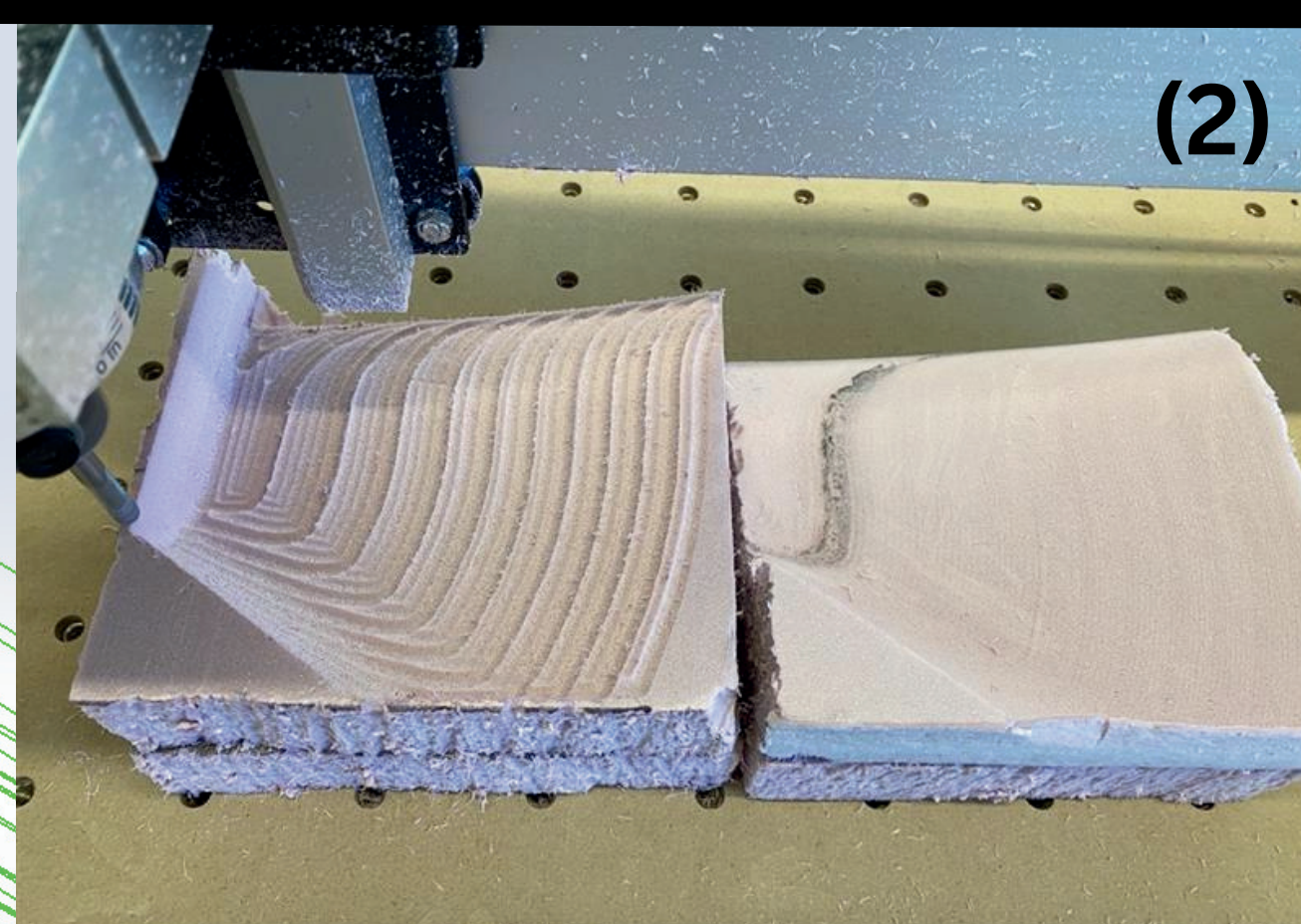
Client: Wyoming Motorsports

Project Description: Design and develop a composite downforce device that compliments the redesigned chassis for this year's competition. The device should address and mitigate the expected understeering and enhance overall vehicle stability and performance.

Design Requirements: The downforce device should be lightweight, yet durable, incorporating advanced composite materials to optimize downforce without significantly increasing drag.



(1)



(2)



(3)

A model was developed and iteratively refined to optimize downforce (1). The most efficient version was converted to machine code to create molds for the layup process (2). Layups were performed on all components to fabricate parts, which were then post-processed and attached to the vehicle (3).