

Automotive Aerodynamics and Wind Tunnel Testing. (In conjunction with Dr. Rajesh Bhaskaran)

Wind tunnel experiments and instrumentation and computational fluid dynamics studies of topics in aerodynamics of complex configuration such as idealizations of automobiles, motorcycles, aircraft landing configuration, and industrial aerodynamics. Applications to testing where some bodies operate in the wakes of other bodies. Development of wind tunnel instrumentation and data acquisition. The CFD simulations will be performed using FLUENT, an industry-standard package. The CFD subteam will have access to the state-of-the-art computing hardware and software in the Swanson Lab for Advanced Engineering Simulation. This work is expected to produce publishable material for submission to a fluids journal. It will also help students pick up skills valued by employers.

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