



TSUS e-Brief April 2024 | Issue 4

Coming Soon: TotalSim Talks Cabin Comfort In Upcoming Webinar

Join us as we kick off the warm months with a webinar on our exciting collaboration with NASCAR and their next-gen car development. Discover how we harnessed conjugate heat transfer, radiation and advanced thermal management techniques using [STAR-CCM+](#) to help improve cabin comfort. Be on the lookout for more information on how to register!

A TOTALSIM WEBINAR: ENHANCING CABIN COMFORT THROUGH ADVANCED THERMAL MANAGEMENT



WITH SENIOR CFD
ENGINEER GREG PADGETT

- ✓ Enhance driver comfort and vehicle performance
- ✓ Improve airflow and cooling systems
- ✓ Utilize data-driven analysis for temperature management

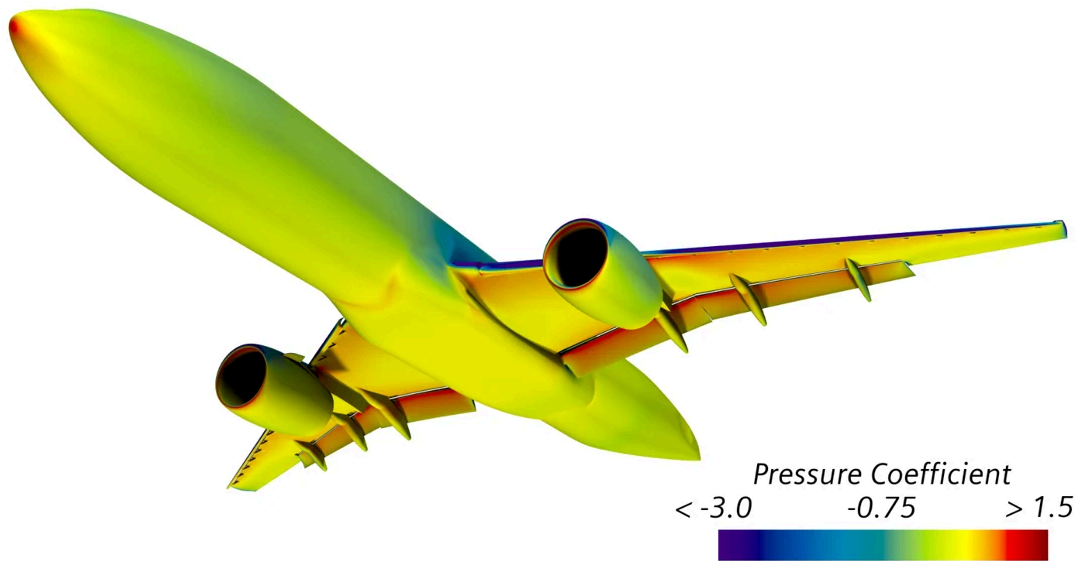
BE ON THE LOOKOUT FOR
REGISTRATION

What's Next For CFD?

Five Upcoming Trends We're Excited To See

In the realm of engineering and design, Computational Fluid Dynamics (CFD) stands as a tool to decode the intricacy of fluids, whether it's the aerodynamics of a soaring aircraft or the complexities of cooling systems in modern vehicles. As people who are particularly invested in seeing the directions CFD will go, we've decided to analyze what the future could look like for this industry. It quickly became evident that several trends are shaping its trajectory, from accelerated GPU in software to hiring out for consulting. [Read our full analysis](#) of what we expect to see more of in the world of simulation.

Spoiler Alert: We can happily report that the future of CFD looks just as bright as the present



Surface distribution of the pressure coefficient on the High Lift CRM at 14° angle of attack.

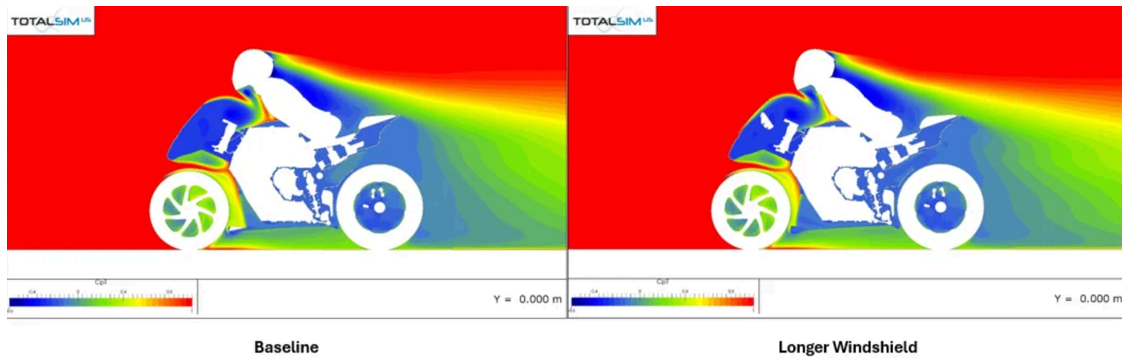
TotalSim Uses CFD to Improve Aerodynamic and Cooling Features of Motorcycle

TotalSim collaborated with an electric motorcycle manufacturer to reshape the future of vehicle design. With a relentless focus on seamlessly blending performance and style, TotalSim tackled the challenge of optimizing aerodynamics and cooling efficiency while preserving the essence of cutting-edge aesthetics. From innovative radiator repositioning to crafting sleek windshields and performance-enhancing side wings, each strategic move propelled the motorcycle closer to automotive excellence.





Dive into the [full case study](#) to uncover how TotalSim revolutionized the design process, shortening the timeline to just four months and paving the way for a new era of road-ready innovation.



Trade Shows for the Team: SAE WCX

Ray represented TotalSim at SAE's International WCX this month. As he walked the floor he not only got the chance to speak to other enthusiasts, but also absorb new insights into the mobility industry.

Detroit is one of our favorite cities to visit for work and [Monica](#) is there right now connecting with old friends and sharing the new steps TotalSim has taken in the software and consulting worlds!





Upcoming Events

Advanced Clean Transportation Expo // May 20 - 23 // Las Vegas, NV

NAFEMS Americas Conference // July 9 - 11 // Louisville, KY

VFS Electric Aircraft Symposium // July 20 - 21 // Oshkosh, WI

Industries Where We Excel



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