Spotlight On: OpenFOAM with TotalSim

Here at TotalSim we are all about helping you utilize your toolkit to the fullest extent. That's why we offer One-Year Support Contracts for our version of the popular open-source CFD solver OpenFOAM®.

OpenFOAM® is an open source CFD software developed primarily by OpenCFD containing an extensive range of solvers and features. Included within each of our support contracts is a full set of codes for our modified version of OpenFOAM, installation and IT support, user training, ongoing code updates and user support. Also included is TotalSim's proprietary utility package that contains our fully automated post processing and we offer custom code and process development time.
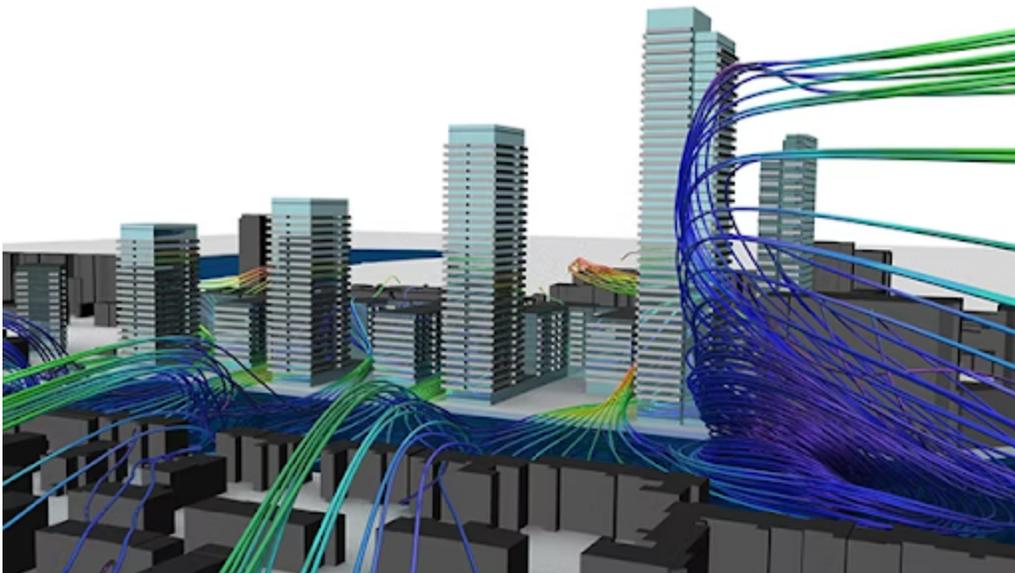

TotalSim has a diverse collection of well designed and proven workflows. We've built our reputation in motorsports, automotive and ground transportation and have developed efficient templates that are accessible to all clients. We've extended those templates into many other industries and verticals and are also able to make custom templates and workflows. We always jump at the chance to further expand OpenFOAM capabilities to suit our clients' needs.

OpenFOAM is one of our favorite tools for those doing repeatable testing - it helps to elevate design and ensure a more seamless development process. To learn more about OpenFOAM and the way we can support your use of it check out our webpage.

TotalSim Uses Architectural Systems Capabilities To Improve Life for Community Members

Recently, TotalSim had the opportunity to be a part of helping our own community here in Columbus, OH. We were brought in to help solve an unpleasant odor that was coming from a major hospital and disrupting the lives of occupants surrounding the building. We used our architectural systems capabilities to identify the source of the smell and find possible solutions that could be made in the near future.

The particular building where the smell was originating from was set to be revamped. The corporation was planning to install a large fan to try to blow the smell away from the HVAC intakes and needed to know what the best placement for the fan was to facilitate this and whether this investment would address the problem.

To learn how we were able to solve the issue read the full case study here. We are happy with the completion of the project and the role we got to play in improving the lives of people in our own community.

Engineer Spotlight: Miguel Class

Miguel Class
Senior CFD Engineer

- Joined TSUS in 2013

- Supports our automotive OEM clients using our OpenFOAM codes

- Earned a bachelor's degree in Aerospace Engineering from The Ohio State University

- Outside of work Miguel is very involved with his family & church community

- He also enjoys running, hiking, traveling, building customer gaming PCs and is a big fan of combat sports like boxing & MMA

Wrapping Up Time in Wisconsin

Ray's time in Oshkosh, WI at the EAA AirVenture never disappoints. With the weather cooperating more so this time than last year (head to the June Newsletter to hear more about that), Ray was able to have a dry tent to sleep in!

The convention is always a great time and Ray got a chance to catch up with our old friends at Beta and Hartzell. He was able to chat more about the work TotalSim does in the aerospace industry and about upcoming innovations in the aviation industry.

Thanks for another great time Oshkosh, till next year!

Upcoming Events

National Advanced Air Mobility Industry Forum, Sept. 13 - 14, Springfield, OH

COMVEC, Sept. 19- 21, Indianapolis, IN

IBEX, October 3-5, Tampa, FL

Industries Where We Excel