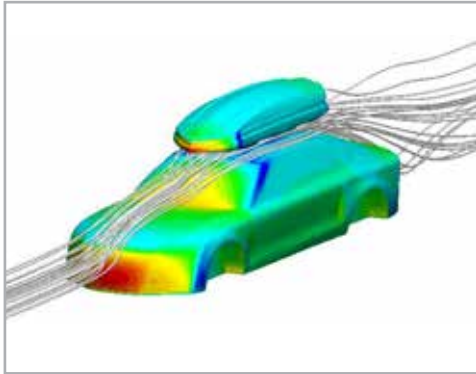


Aerodynamics

CFD Analysis Consulting

IMAGINiT provides an effective collaborative consulting business model to deliver CFD simulation services for confident design decisions. The insight we provide empowers our clients to create robust designs faster and more reliably without distractions to their current development process.

Our model is built on leveraging strengths:



By partnering with IMAGINiT, the analysis process is left to our analysis experts and the design process is left to your design experts. Sharing of these core competencies encourages continuous collaboration and bi-directional flow of information. This ensures all design guidance and ideas exchanged fit within your constraints for timing, cost, manufacturability, size and aesthetics.

Benefits of IMAGINiT insight:

- ▶ Confidence in performance effectiveness prior to costly wind tunnel testing
- ▶ Streamlining design profiles to reduce aerodynamic loading
- ▶ Ensuring structural integrity under worst-case aerodynamic loading conditions
- ▶ Optimizing lift-to-drag ratios
- ▶ Balancing overall performance with size, cost and aesthetics
- ▶ No flow/thermal expertise or software needed – We have it!

Initiatives impacted:

- ▶ **Cost Control** – mitigating overdesigning, redundancy and costly rework
- ▶ **Time to market** – reducing exploratory testing with greater confidence
- ▶ **Differentiation** – substantiating performance claims
- ▶ **Compliance** – achieving specifications with better designs the first time
- ▶ **Brand Recognition** – introducing superior products ahead of the competition

What are the biggest reasons companies partner with IMAGINiT?

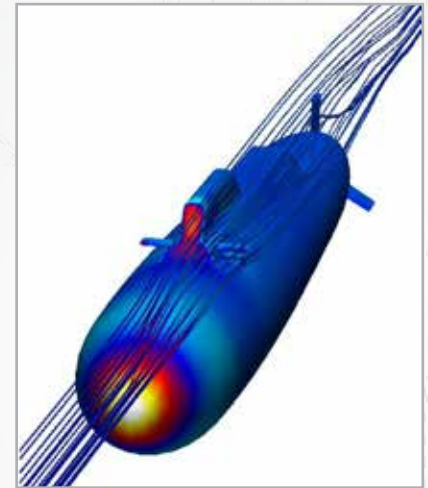
Design Insight. Our team provides impactful design insight for understanding how to fix a problem or innovate new and better performing products without diverting internal engineering resources.

Analysis Expertise. Our team has built careers around CFD analysis and we have the expertise to confidently gain and interpret simulation results to empower our clients to make informed design decisions and meet critical project deadlines.

Preserve design intent. Our process is highly collaborative and built around leveraging the strengths of both IMAGINiT and our clients. The combination of focused core competencies and frequent design review meetings where IMAGINiT works as an extension of the team ensures we are always in lock step with your objectives to preserve the original design intent.

Application Areas:

- ▶ Automotive
- ▶ Transportation
- ▶ Marine
- ▶ Hydrodynamics
- ▶ Aerospace
- ▶ Avionics
- ▶ Architectural
- ▶ Consumer Products
- ▶ Energy / Power Generation



“Aerodynamics is a critical aspect of our cargo boxes, and thus something that needs to be accounted for and properly understood prior to releasing a product line. The team at IDP (now IMAGINiT), was able to quickly uncover and communicate the flow dynamics and resulting forces on a next-generation box along with the changes needed to reduce drag without sacrificing aesthetics and enhance our go-to-market story. The simulation know-how, transparent communication and aerodynamic knowledge of the IDP (now IMAGINiT) team made the entire process very comfortable, to the point where we basically forgot they were not permanent members of our own team.”

— Kevin Bogoslofski
Chief Engineer, Thule

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