

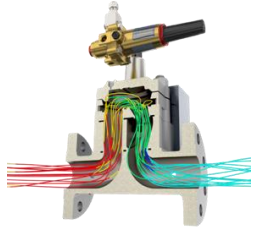
ANALYSIS CONSULTING SERVICES



Hawk Ridge Systems has an experienced analysis consulting team dedicated to helping you with your simulation and analysis projects. With advanced skills in SOLIDWORKS Simulation and DS SIMULIA Abaqus, we will collaborate with your team, whether developing methodologies, supporting project workload fluctuations, or fulfilling traditional analysis requirements.

CAPABILITIES

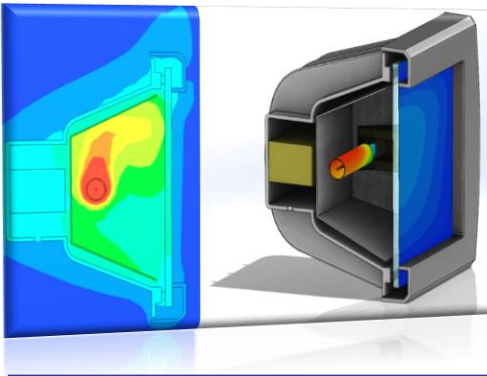
Our consultants have experience across a variety of industries and FEA and CFD tools, our team of experts can help you solve:



- Structural Analysis
- Drop, Impact and Crash
- Vibration and Shock
- Nonlinear Analysis
- Material Model Development from Test Data
- Fluid Flow
- Electronics Cooling
- Mold Flow Analysis
- Thermal Analysis
- Multibody Dynamic Motion

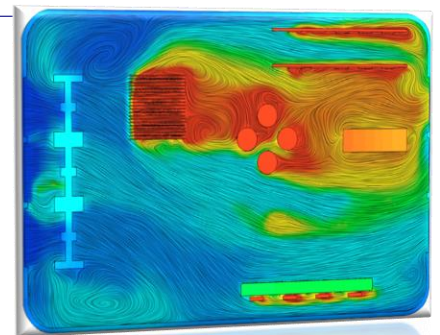
SAMPLE PROJECTS

Analysis consulting engagements range from simple analyses to complex interpretation of material test data and virtual destructive testing. Hawk Ridge Systems has performed hundreds of projects with a range of technologies. Sample projects on structural mechanics, CFD analysis and injection molding with SOLIDWORKS Plastics are available on the [Hawk Ridge Systems website](#).



The SOLIDWORKS Flow Simulation HVAC module was used to analyze heat transfer in a Halogen Floodlight by convection and radiation, including the radiation absorption in semi-transparent solids and the radiation spectrum. Temperatures on the bulb and front glass were tracked with analysis goals to determine if the system was operating under permissible temperatures. Post-processing tools were used to generate cut plots and surface plots to display visual representations of the temperature values.

The SOLIDWORKS Flow Simulation Electronics Cooling module can be used to analyze the cooling effectiveness of your products. Device performance can be tested in various environmental conditions and layout configurations to reduce the prototype investment by identifying thermal issues early in development. Post processing graphical representations of the analysis results allow engineers to easily present their findings for internal discussions or for marketing collateral.



ANALYSIS SERVICES MATRIX

Our experts provide training, consulting services and mentoring. We can work with your team as an additional resource, or you can outsource an entire project to us. The Analysis Services Matrix can help you make the best choice for your needs.

Deliverables	Analysis Consulting	Custom Mentoring	Mentoring Xpress
An interactive review and evaluation of your application.	✓	✓	✓
Analysis model generation or simplification.	✓	✓	
Analysis strategy development and execution.	✓	✓	
Delivery of model setup and result files		✓	✓
A report that includes an analysis setup overview and any result plots, tracked parameters, or data tables.	✓		
3-hour mentoring session		✓	✓

WHY CHOOSE HAWK RIDGE SYSTEMS FOR ANALYSIS CONSULTING



The Analysis Services Consulting team is well-versed in design validation, virtual testing, and project management. We can help you get into production faster and with less prototyping. Fundamentally, we can reduce your risk through virtual design qualification well in advance of costly production or prototyping.

For your most challenging contact, large-deformation or impact problems we have SIMULIA Abaqus application specialists that can help develop material models from test data, validate analysis to testing, and provide a technology transfer so that you can hit the ground running with your analysis projects.

To learn more about Analysis Consulting, contact us: hawk@hawkridgesys.com



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