

APPLIED

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VISION

THE DESIGN AND MANUFACTURING SIMULATION SPECIALISTS

Sauber Surge Ahead with VSAERO

Analytical Methods Inc (AMI) CFD software VSAERO is playing an important role in the success of the Sauber Petronas Formula 1 racing team, currently enjoying 4th place in the Formula 1 constructors championship.

Before using VSAERO, the team relied on wind tunnel experiments and track testing to arrive at the most effective aerodynamic design for the F1 car. By utilising VSAERO, Sauber gained a greater insight into the aerodynamic factors affecting the car's performance during racing. As a result the software has been most valuable in helping Sauber improve the aerodynamics of the current C-20 racing car, particularly in the areas of the front and rear wings, nose and driver cockpit. "We are now seeing a good correlation between the

results from on-track and wind tunnel testing and CFD. This gives us the confidence to use VSAERO to improve the aerodynamic performance of other parts of the car's design," says Torbjörn Larsson, Computational Aerodynamics Specialist, Sauber Petronas.



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Simulation Coming of Age

"Simulation is being used more widely than ever as companies recognise the clear commercial benefits from applying this technology," says Applied Computing & Engineering technical director, Yash Khandhia,

"Companies are stepping back and thinking through how they plan to use simulation and how it will fit with their existing CAD / CAM infrastructure.



For example, re-use of CAD data is an absolute must if companies are to maximise the benefits from all the hard work of creating the CAD models in the first place," he says.

In this latest edition of 'Applied Vision' you'll find examples of companies who are benefiting from having taken this strategic view of simulation. At one level there is the simulation of co-ordinate measurement machines (CMMs) at Jaguar Cars and Nissan where CMM productivity has increased significantly. While at another level, there is the need to communicate the results of simulation. This is where computer-aided engineering consultancy Vectayn is finding that Ceetron's GLview is creating the opportunity for higher levels of customer service. In each case, organisations are striving to produce better products, more efficiently and, if possible, in a more timely manner - these are the some of the benefits available from a simulation approach.

This issue contains just a few examples of how Applied Computing & Engineering's expertise and range of simulation technology is making a difference. For further information on any of the stories in this edition of 'Applied Vision' simply complete the fax back form, or alternatively contact us direct on 01925 830085.

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