

## WR Digital: CFD for external aerodynamics in Racing

### Challenge

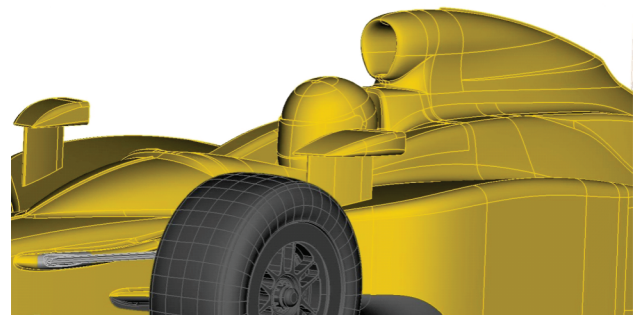
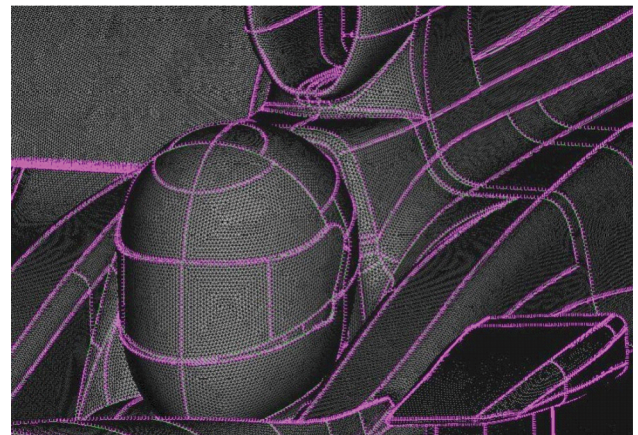
- In modern racing, CFD preprocessing for external aerodynamics is becoming more demanding due to high model complexity, increased size handling and reduced processing time.

### Approach

- CAD import in ANSA, geometry clean up and defeating with semi-automatic tools for watertight generation.
- One step meshing process with batch mesh tool.
- Generation of variable size CFD surface mesh.

### Results

- Improved aerodynamics performance of racing car through high quality CFD modeling in less time, with reduced resources.



*"CFD preprocessing for performance racing technology means high quality complex modelling in limited time. ANSA has proved to be robust and efficient in both."*

*Rob Rowsell, WR Digital,  
Senior CFD Engineer*