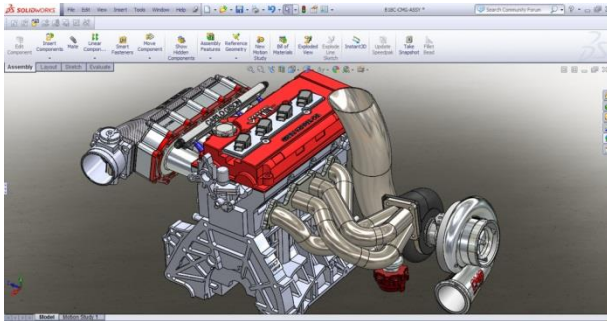


COMPUTERS IN DESIGN + TECHNOLOGY

Computers are used to help design and develop (improve & test) ideas and prototypes. They are often quicker, more accurate and precise than completing a task by hand.

CAD COMPUTER AIDED DESIGN



2D CAD SOFTWARE EXAMPLE:



3D CAD SOFTWARE EXAMPLE:



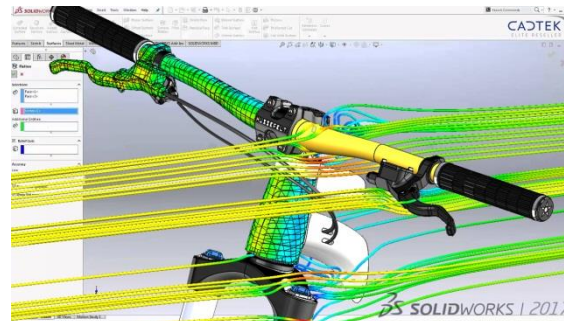
CAD = Computer Aided Design

CAD is 2D or 3D specialist computer software. It allows designers & engineers to design, visualise and test products.

Photo realistic rendering = Adding materials, light & texture to the 3D model to make it appear real.



CAT COMPUTER AIDED TESTING



CAT = Computer Aided Testing

CAD software can be used to test a product during its development, helping to identify problem areas and faults. **CAT** tests include:

- Aerodynamics
- Impact testing
- Stress analysis
- Fluid dynamics

CAM COMPUTER AIDED MANUFACTURE



CAM = Computer Aided Manufacture

CAM uses the 2D or 3D cad files to manufacture or prototype the product. Common pieces of CAM equipment include:

- Laser Cutter
- 3D Printer
- CNC Milling Machine
- CNC Router