LESSON I FUNDAMENTALS FOR CAD/CAM/CAE SYSTEM
LECTURE I

IDE3301CAID DR. PALANG WONGTANASUPORN

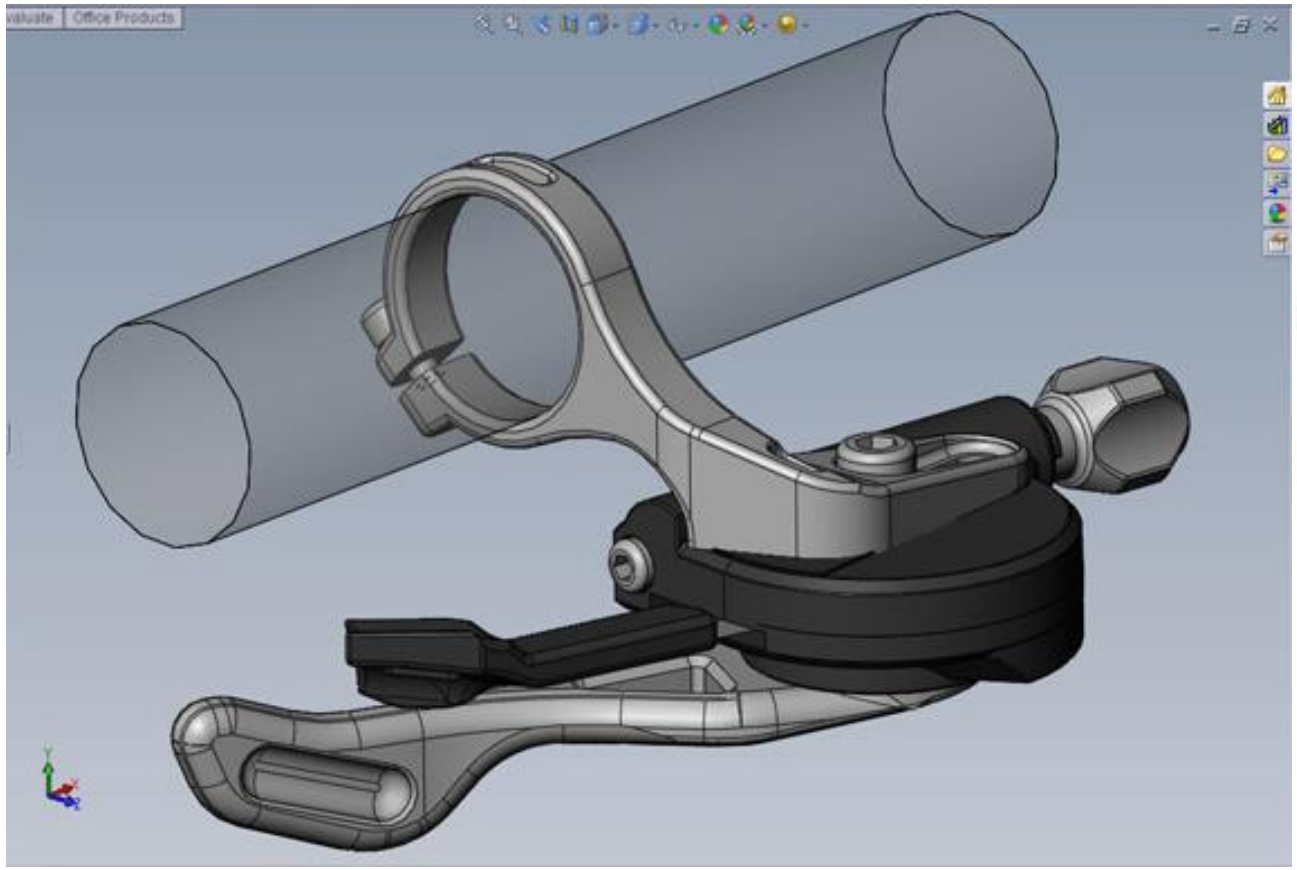
FUNDAMENTALS FOR CAD/CAM/CAE SYSTEM

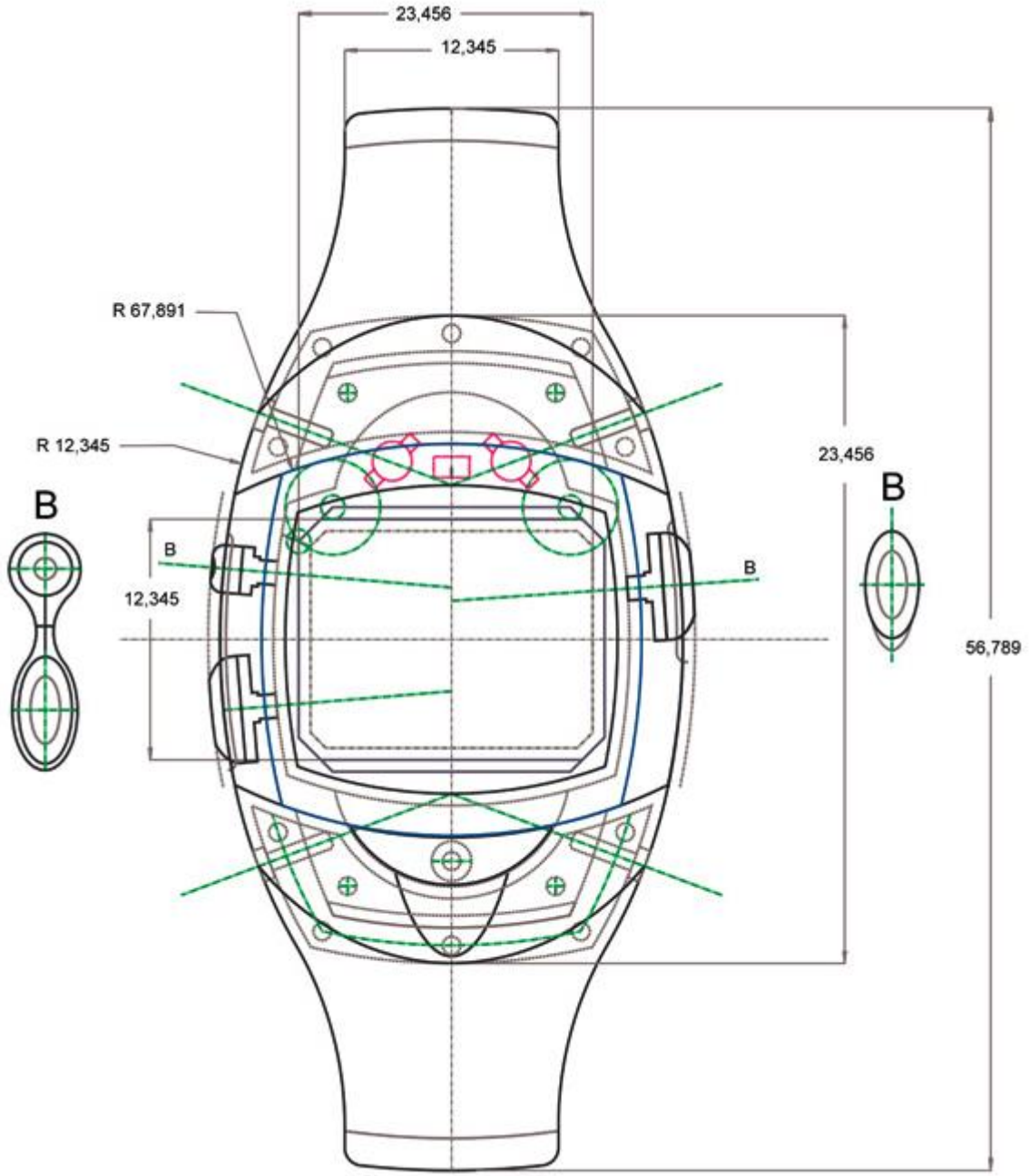
GROUP OF TECHNOLOGY

- CAD http://www.youtube.com/watch?v=m1dR6ygvCug&list=PLru2OQ6BLajwGdeYuxjgqqTo-Jy8CCtbd
- CAM http://www.youtube.com/watch?v=wxRg7d8WhcQ
- CAE http://www.autodesk.com/suites/product-design-suite/overview
- CAID http://www.youtube.com/watch?v=V0wF1GDgLI4

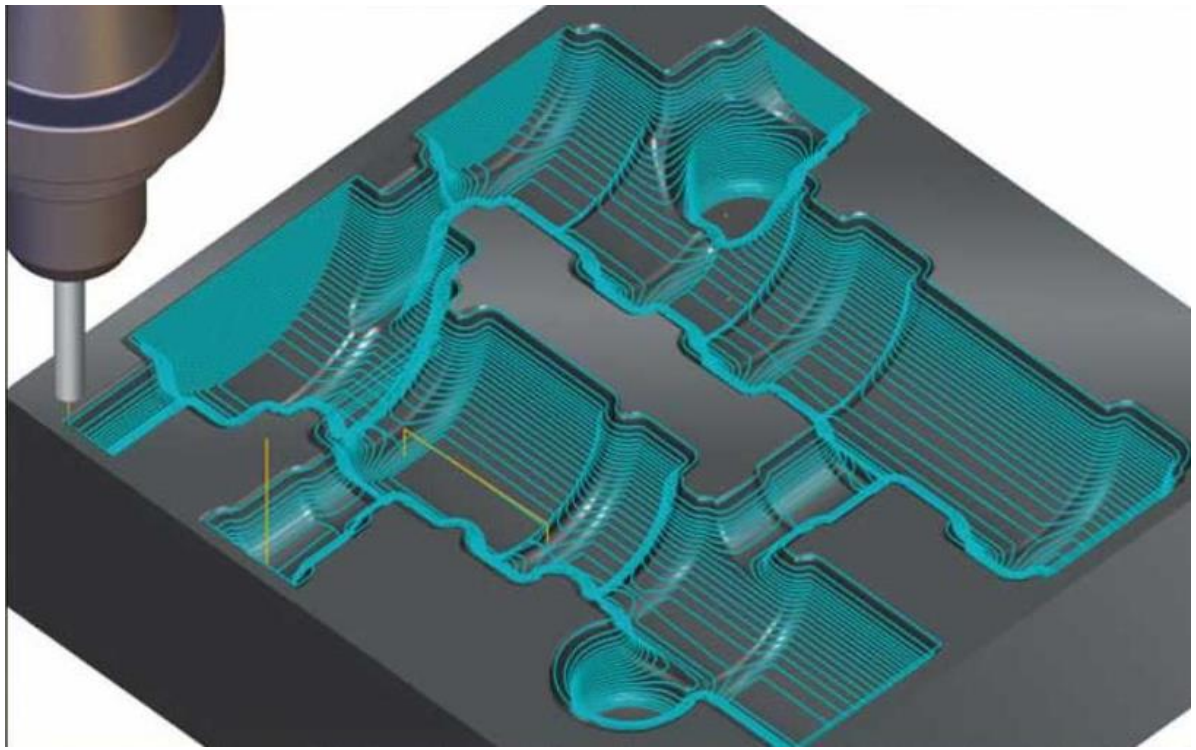
CAD = COMPUTER AIDED DESIGN

http://www.youtube.com/watch?v=t3s9496aylg



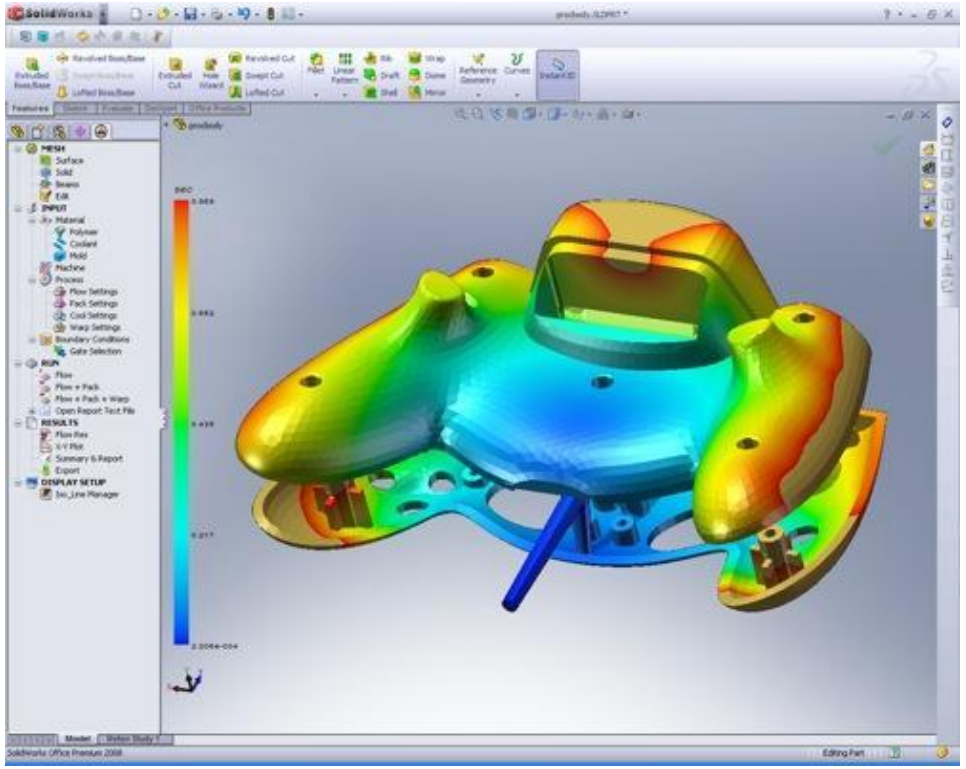


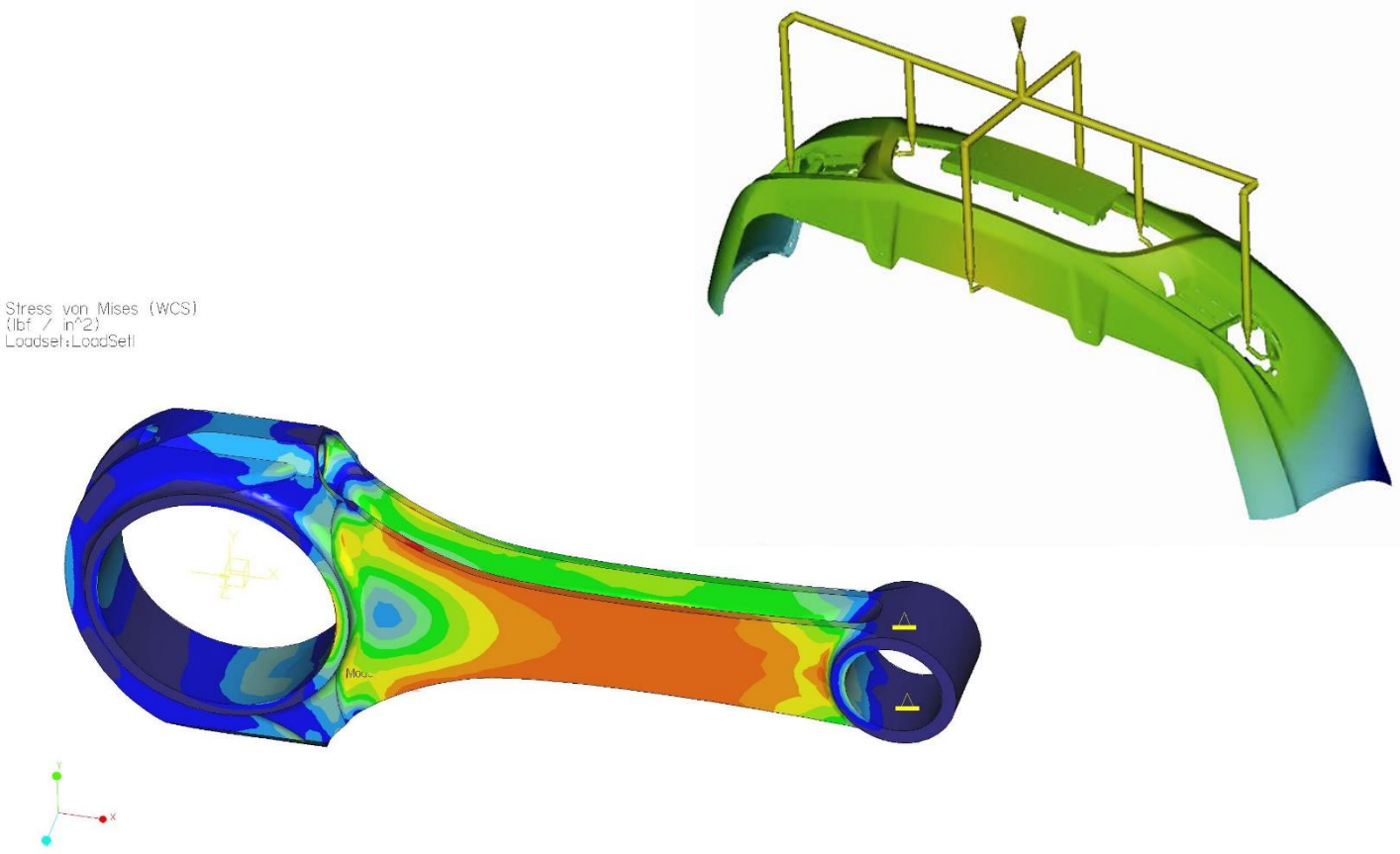
CAM = COMPUTER AIDED MANUFACTURING



http://www.youtube.com/watch?v=85vPMrx8OYE

CAE = COMPUTER ADDED ENGINEERING





http://www.youtube.com/watch?v=tj65wL0x8xs

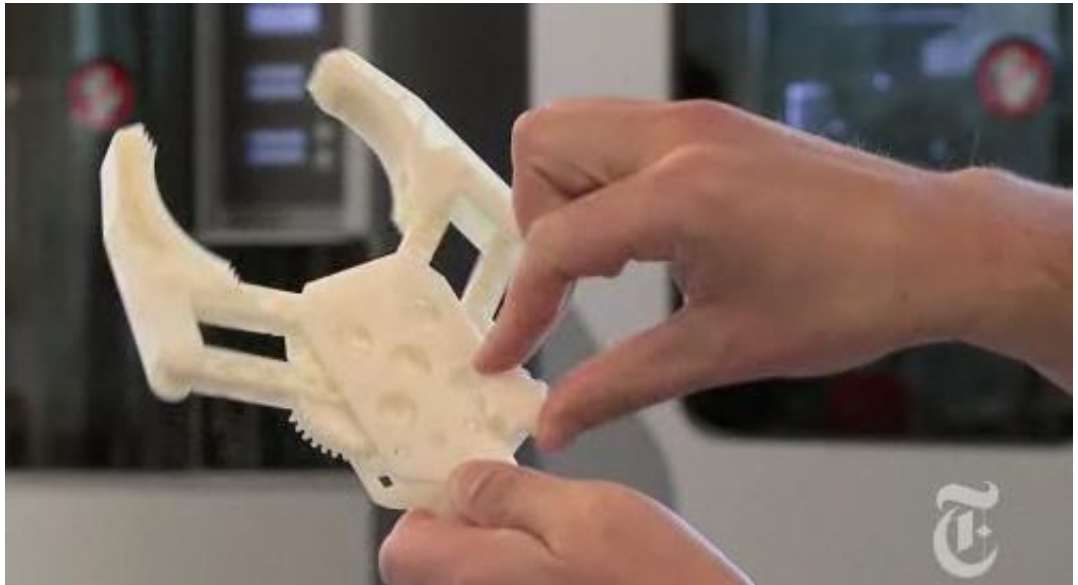
CAID = COMPUTER AIDED INDUSTRIAL DESIGN

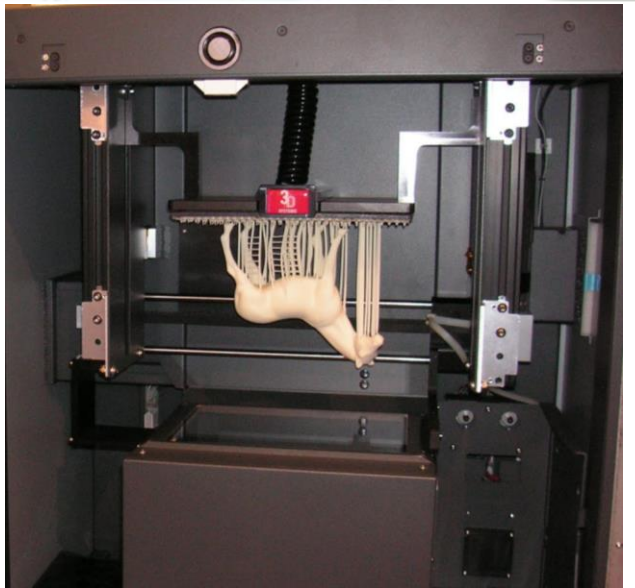
http://www.youtube.com/watch?v=wKFHW4TIu10

http://www.youtube.com/watch?v=p-DN9XGJZkk

http://www.youtube.com/watch?v=UADoHv6dBrk

http://www.youtube.com/watch?v=SKXfnkYGj-o



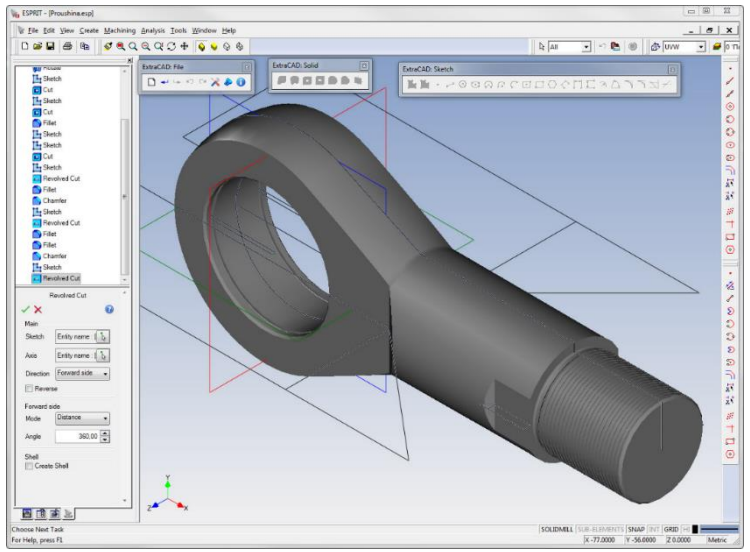


TYPE OF MODELING

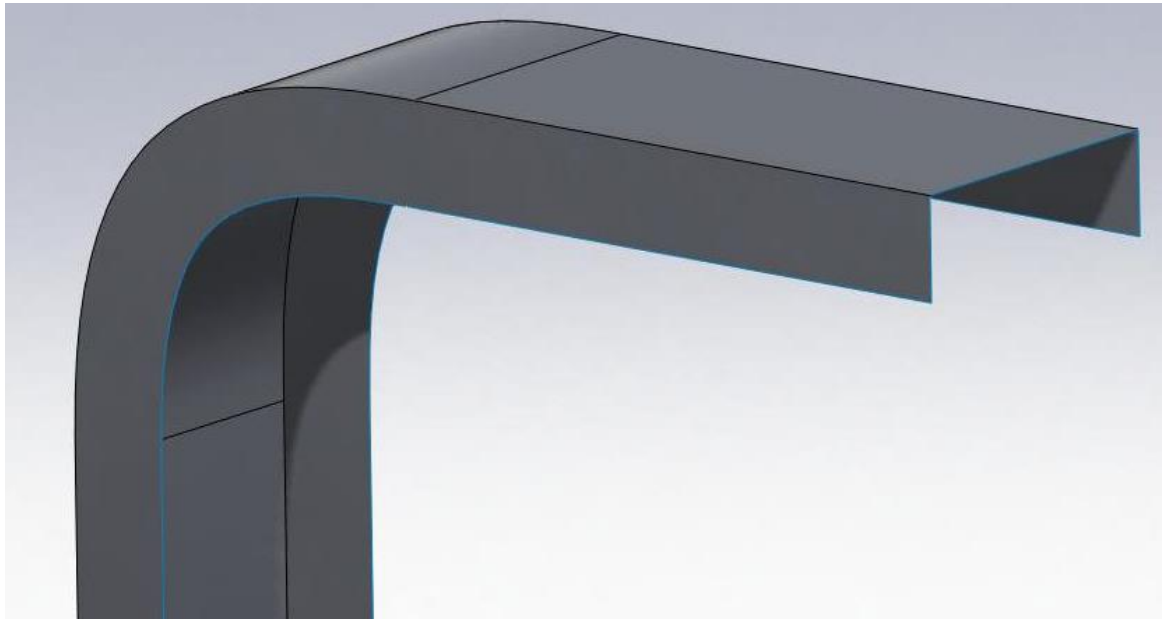
1. Parametric **SOLID** Modeling

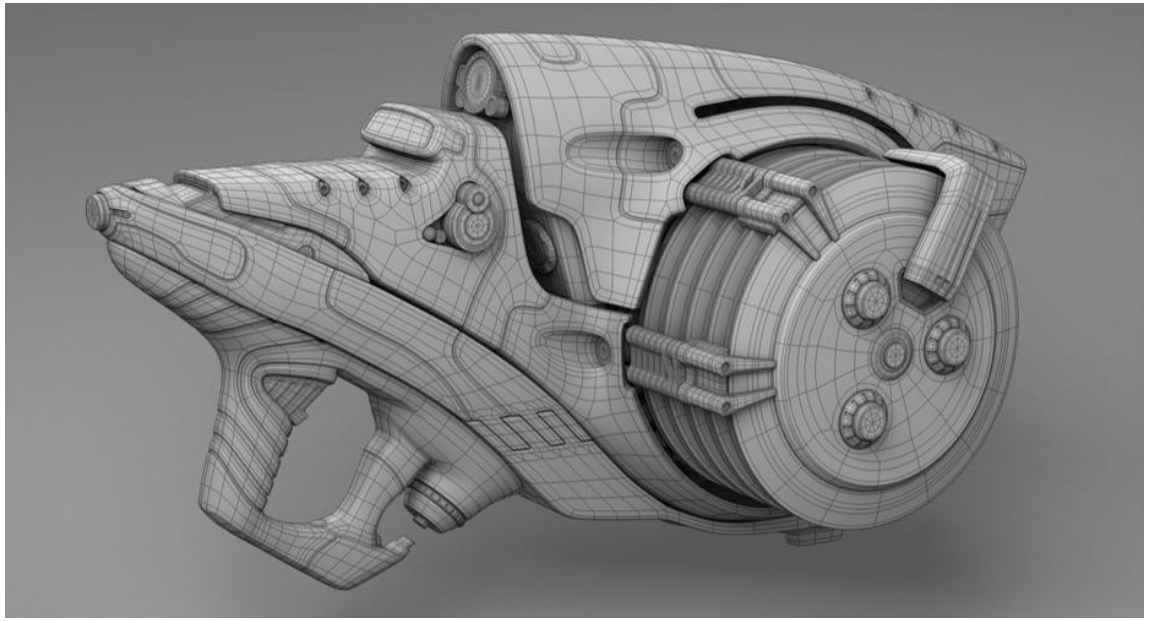
2. Nurb **SURFACE** modeling

PARAMETRIC SOLID MODELING



NURB SURFACE MODELING



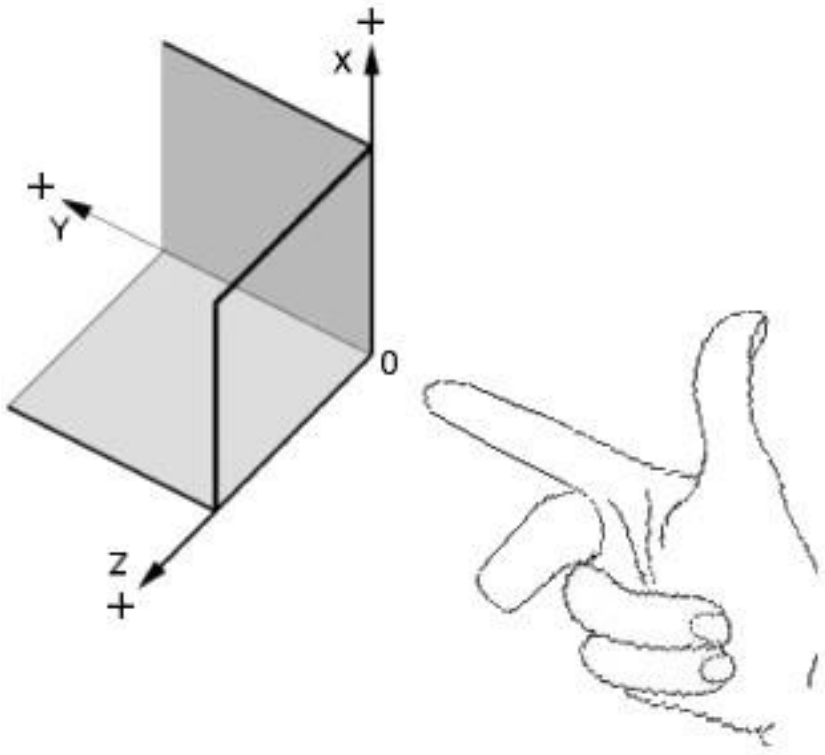


CAD BACKGROUND KNOWLEDGE

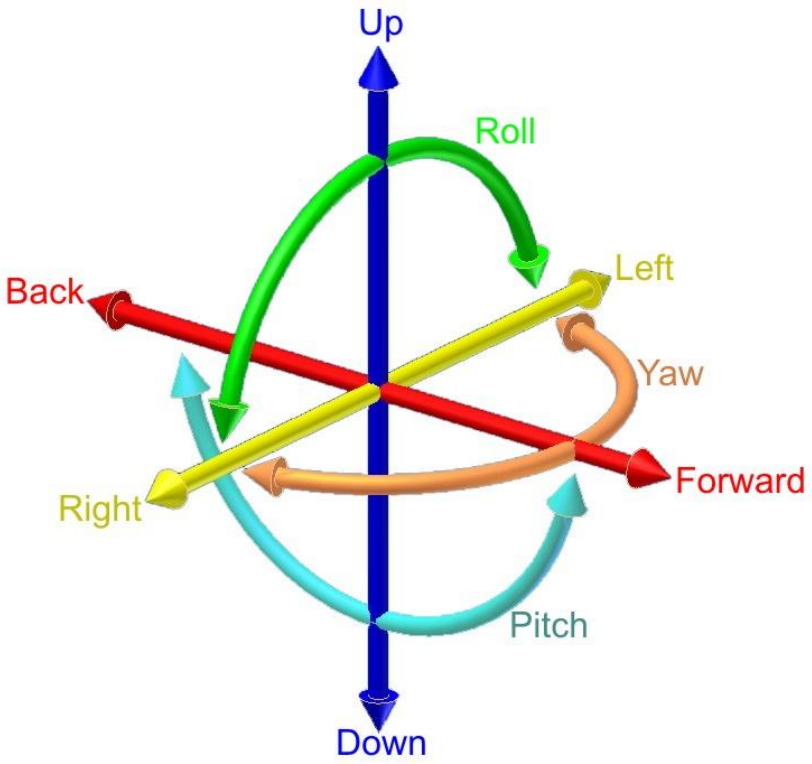
1. COORDINATE SYSTEM
2. DOF = DEGREE OF FREEDOM
3. PLANE
4. FACE
5. AXIS
6. PIVOT

POSITIONING AND MOVEMENT

Coordinate system



DOF = Degree of Freedom



DRAWING SPACE

Working plane

face