Mechanical CAD

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Mechanical CAD

"Computer aided Design"

• Communication Mechanical Ideas to Someone else
What is CAD?

Mechanical — autocad, solidworks, corel draw

Electrical — OrCAD, Eagle, circuit drawer

Digital — Xilinx, ISE, Altera Quartus II

Software — UML — case tools

Laboratory

MATLAB, SIMULINK
What is CAE?

Mechanical - FEA - Finite element analysis

Electronic - pSpice, circuit simulators, logic simulators, waveform viewers

Software - control tools, MATLAB

Testing - code review, verification
What is CAM?

Mechanical - CNC mill
SLA printer
Electrical - photo by lithography - IC
Software - code generation
Traditional 3-View Drawing
Questions?