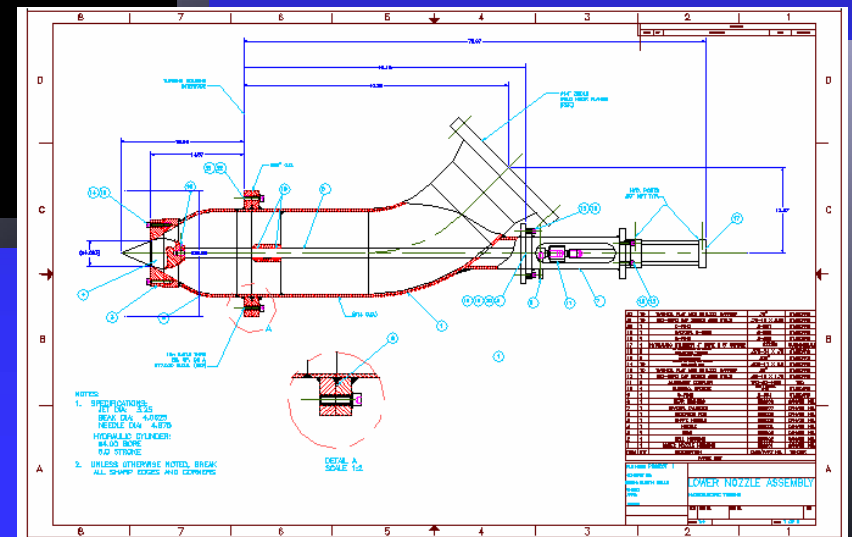
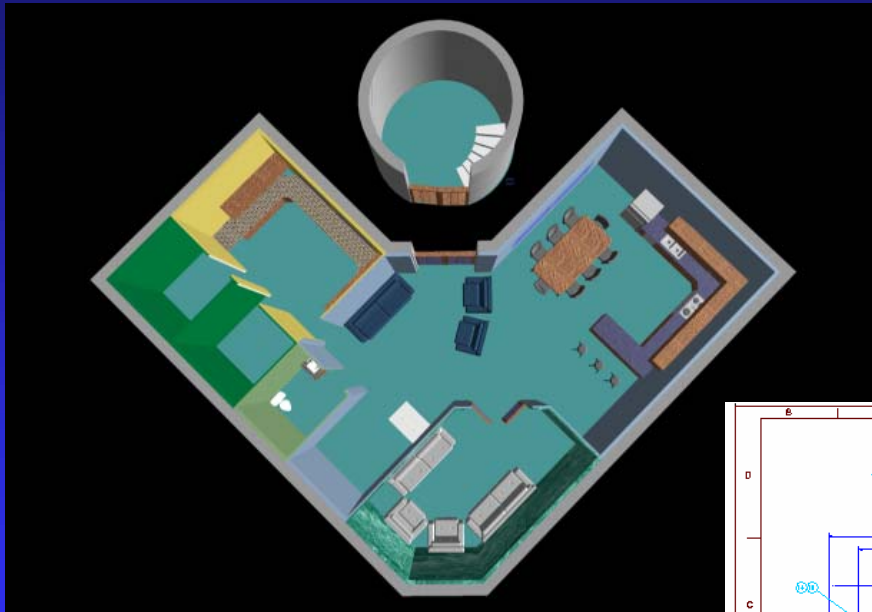


Kaplan College



Engineering Drafting / CAD Associate Degree program

Preparing design students for a variety of employment opportunities in architectural and engineering careers



Engineering Drafting / CAD

Learn More

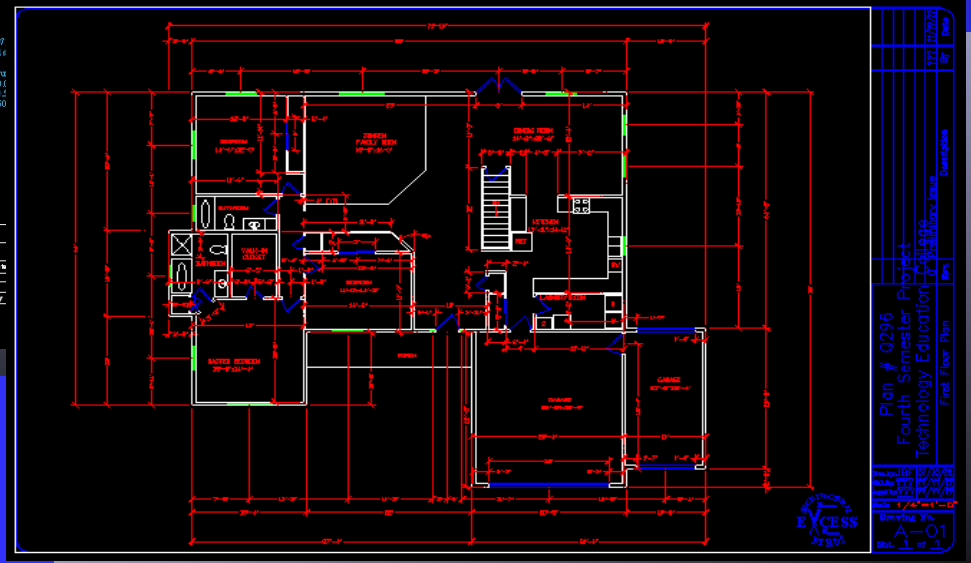
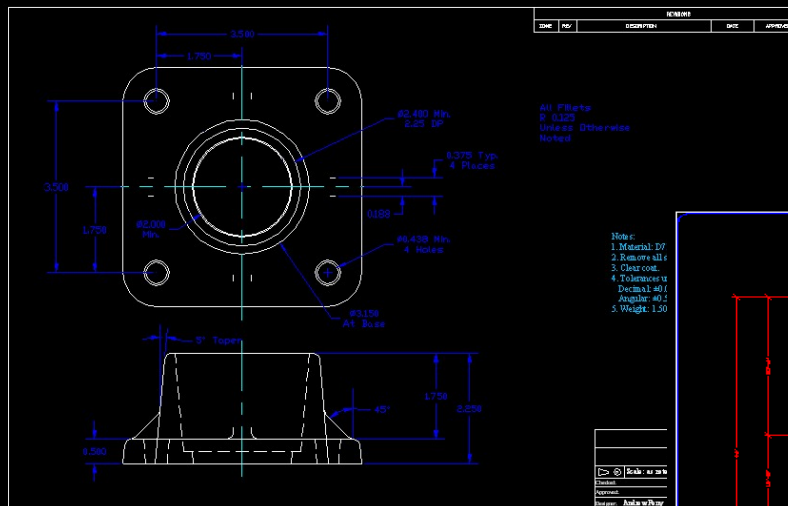
to

Earn More

Building a competitive advantage

First Skill Focus

2D mechanical and architectural drawings



Second Skill Focus

3D drawings

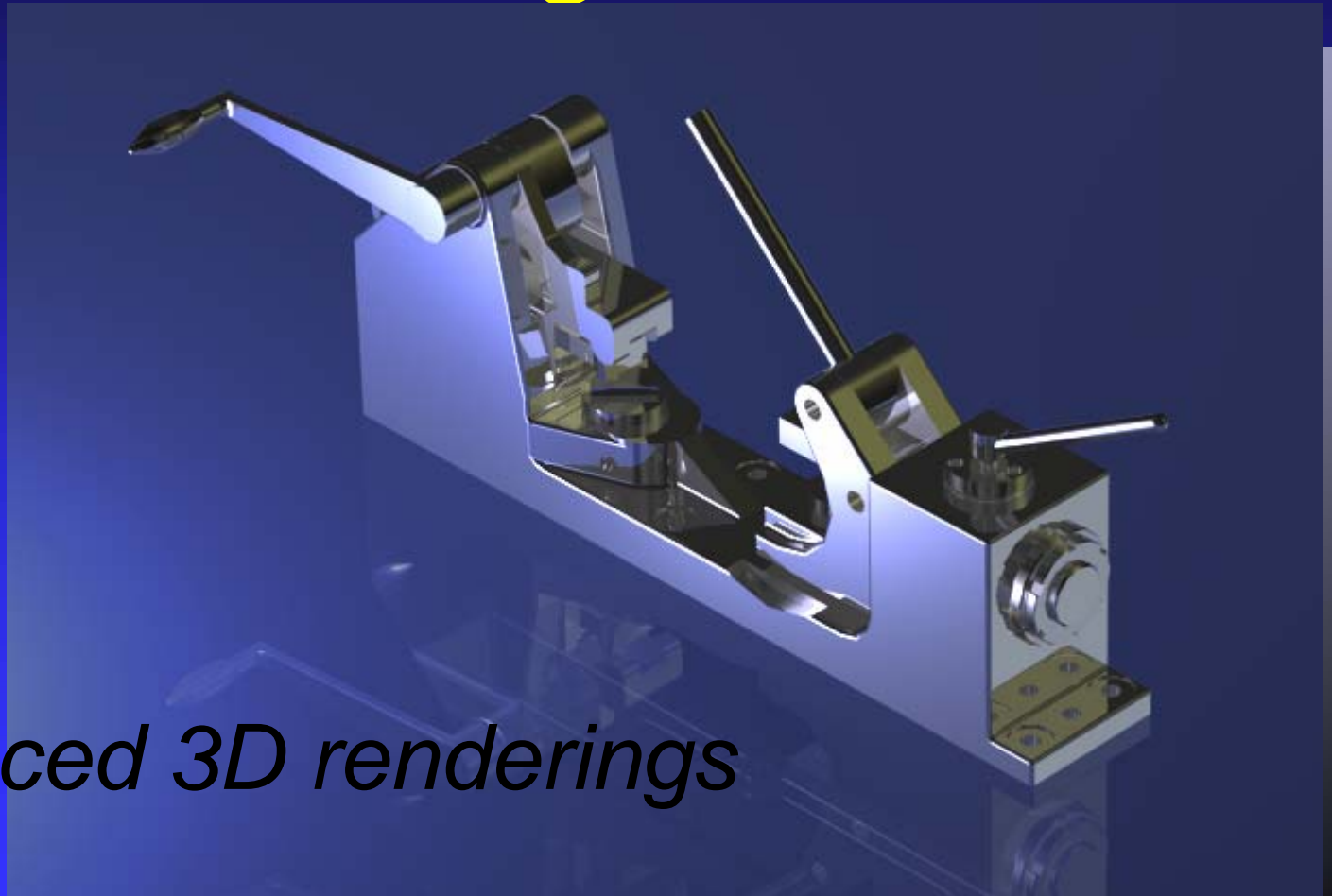


Building a competitive advantage



Second Skill Focus

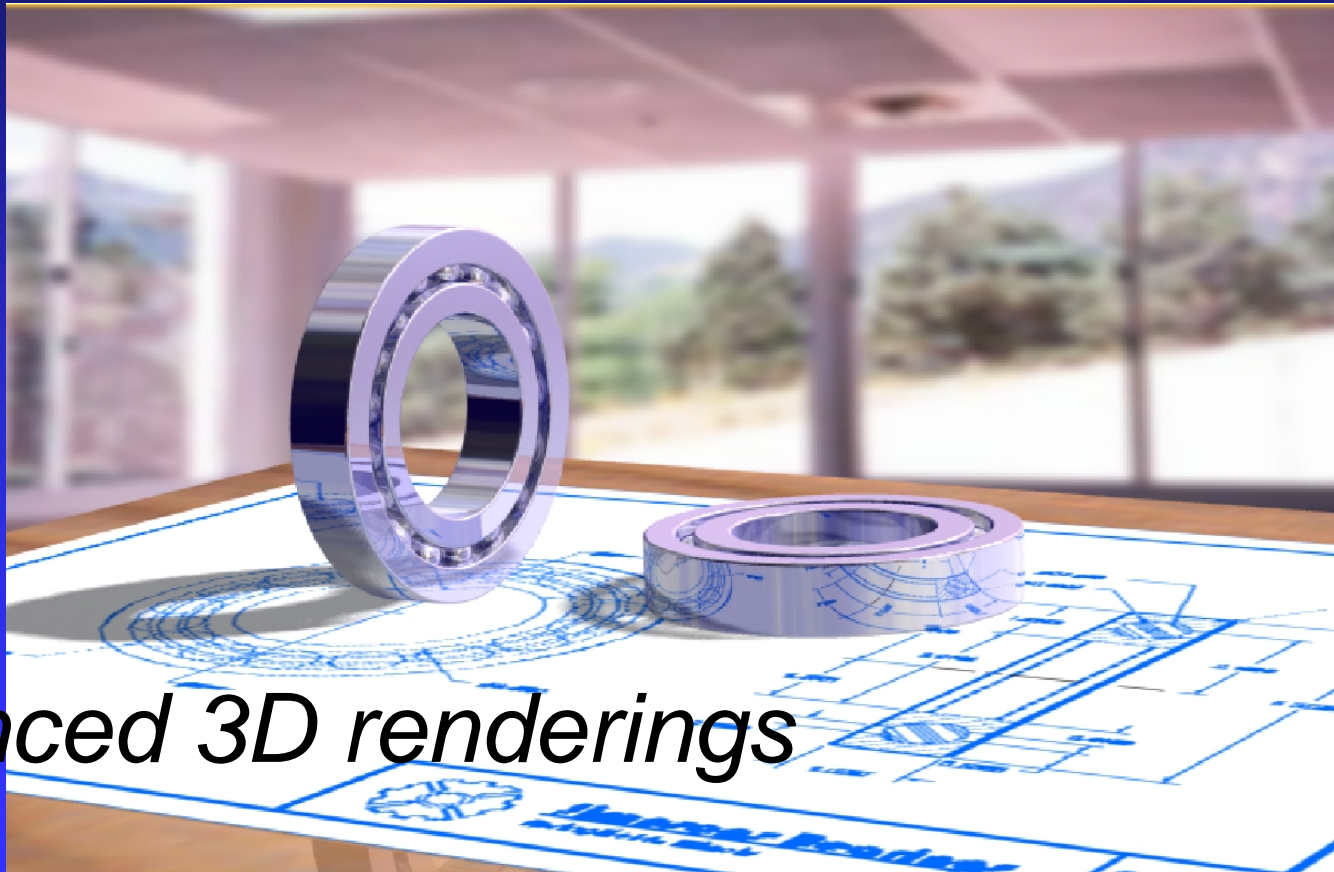
3D drawings



Advanced 3D renderings

Second Skill Focus

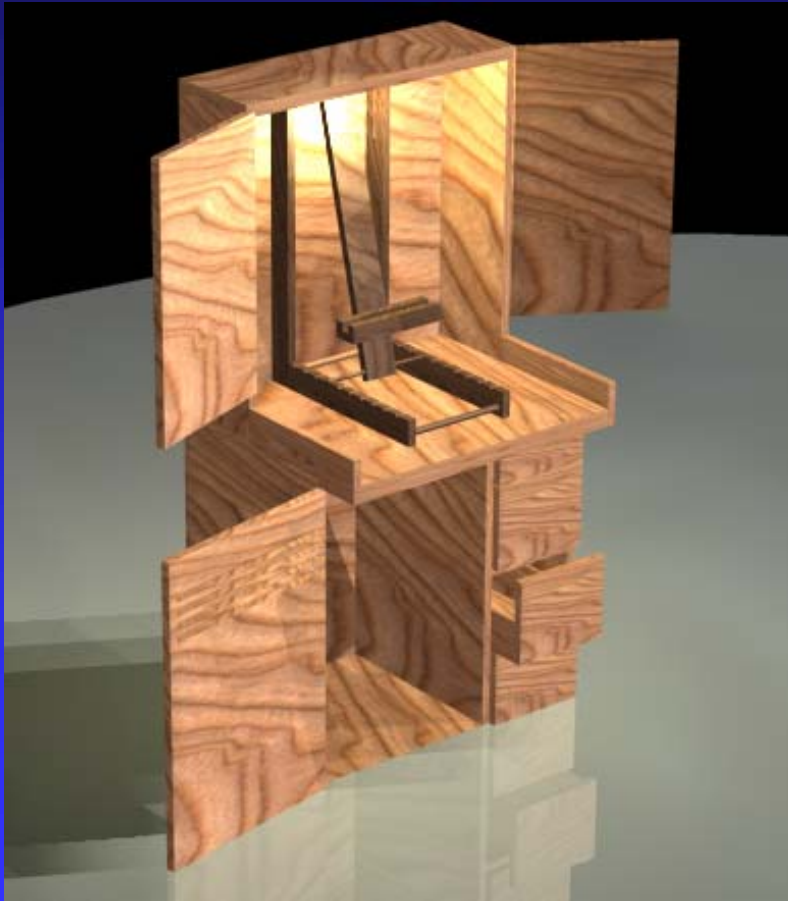
3D drawings



Advanced 3D renderings

Third Skill Focus

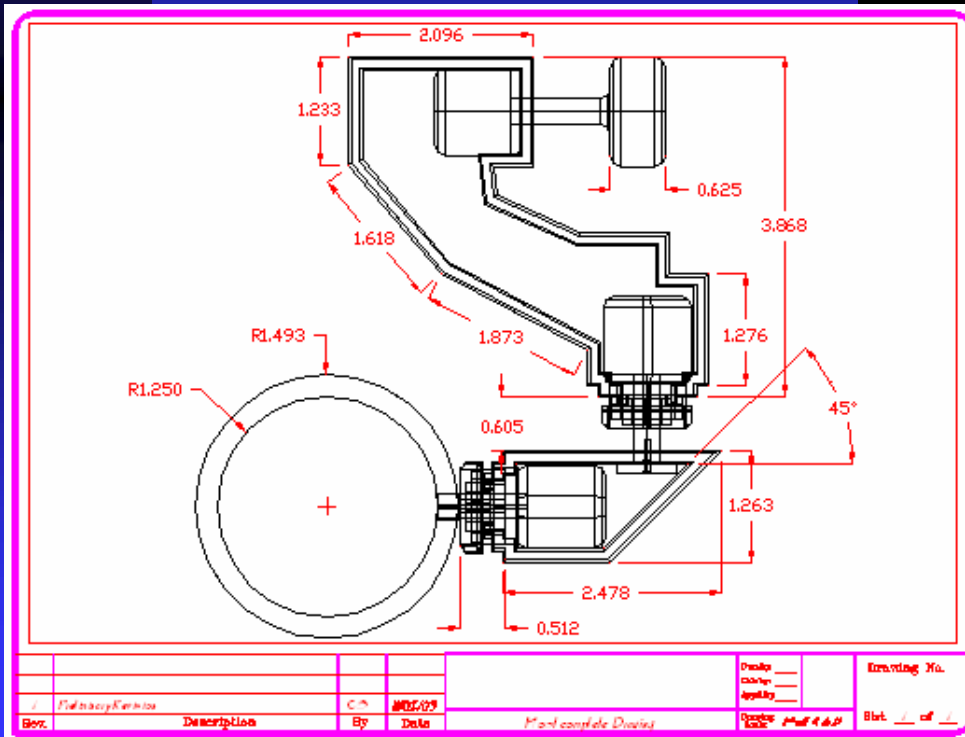
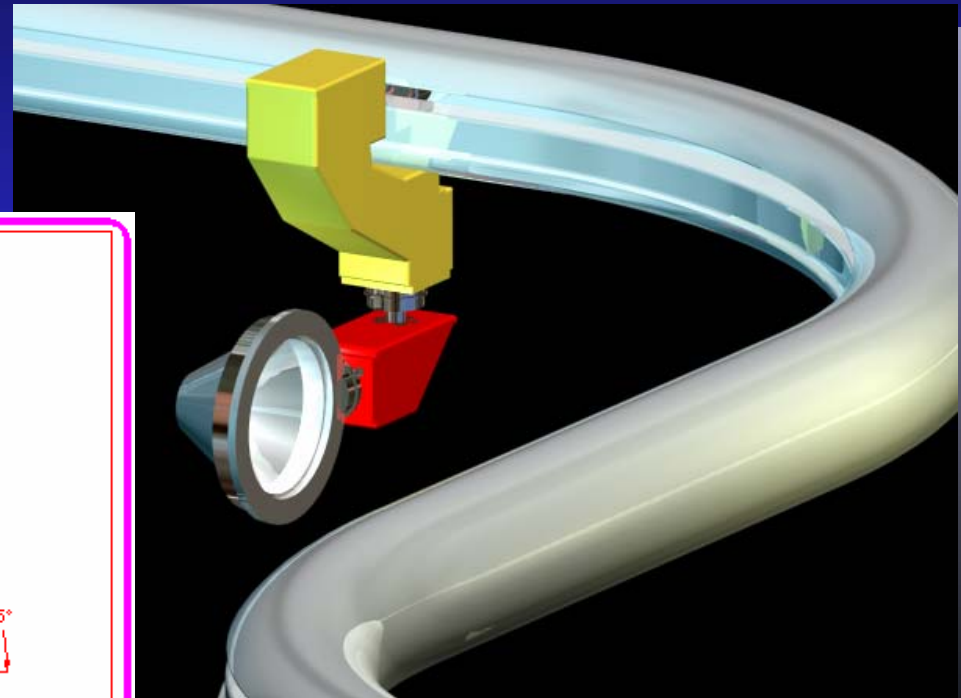
The Design Process



Design is Problem Solving

Third Skill Focus

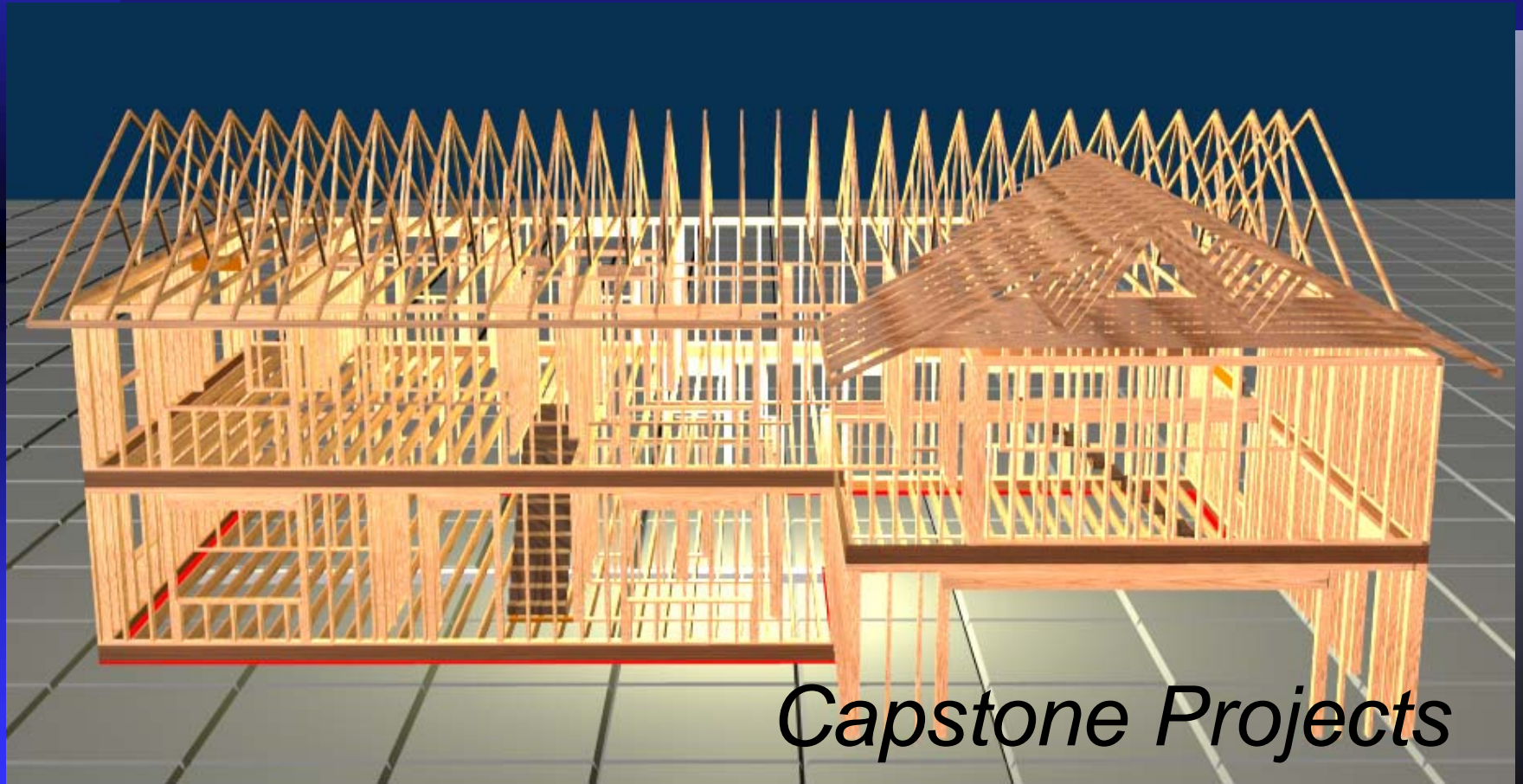
The Design Process



Capstone
Projects

Third Skill Focus

The Design Process



Capstone Projects

Third Skill Focus

The Design Process



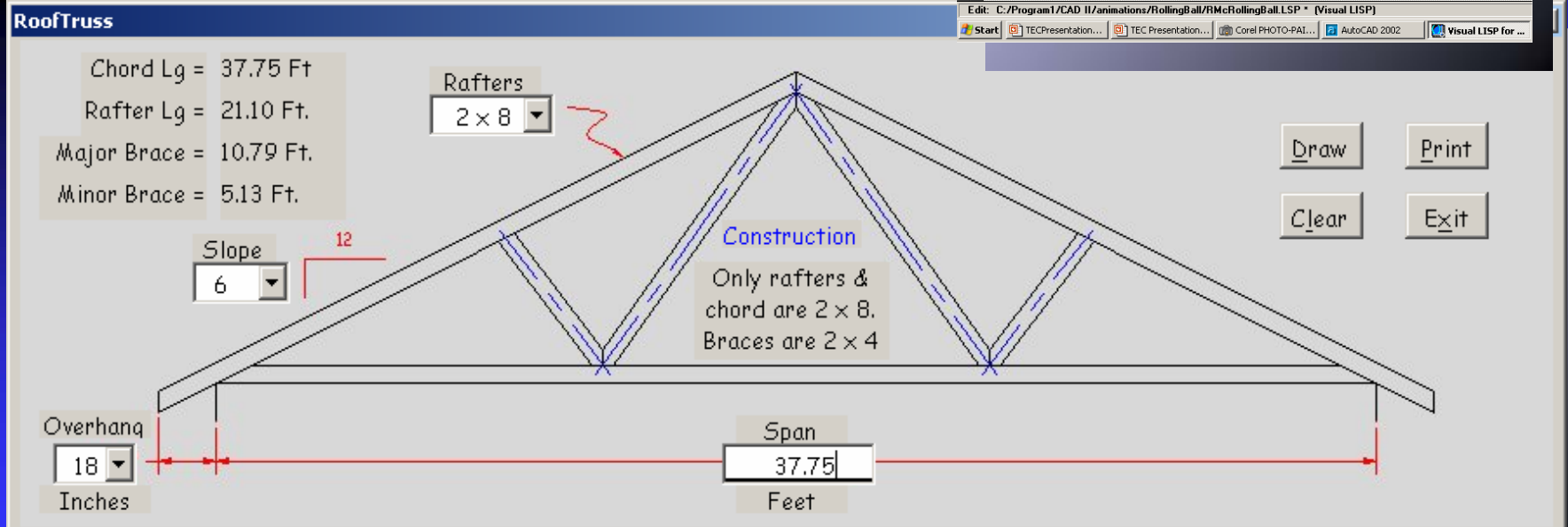
Fourth Skill Focus

Programming

Another Competitive Advantage

```
Visual LISP for AutoCAD <TemplateRotaryJoint.dwg> [RMCRollingBall.LSP]
File Edit Search View Project Debug Tools Window Help

;; RMCRollingBall.lsp
;; a program that moves and renders
;; this is a program that moves a ball thru an opening door
;; remember to run the render command before starting this program
(alert "type rb to start program")
(defun c:rb (/)
  (setq osm (getvar "osmode"))
  (setvar "osmode" 0)
  ;; Select the item on layer "item"
  (setq ss1 (ssget "x" '(0 . "ball")))
  (setq ss2 (ssget "x" '(0 . "door")))
  ;; set the variables for the loop
  (setq moviefile 1000)
  ;; ball moves down sidewalk
  (setq counter 0)
  (while (< counter 113)
    (command "move" ss1 "" "0" "0,0")
    (c:render "an_plan")
    (c:saveimg (strcat "C:/Student/RMC/" itoa (moviefile)) "bmp")
    (setq moviefile (1+ moviefile))
    (setq counter (1+ counter))
  )
  ;; ball turns corner and door opens
  (setq counter 0)
  (while (< counter 7)
    (command "rotate" ss1 "" "2'-9\"-3'-0\" -12.8751)
    (command "rotate" ss2 "" "0,0\" -12.8751)
    (c:render "an_plan")
    (c:saveimg (strcat "C:/Student/RMC/" itoa (moviefile)) "bmp")
    (setq moviefile (1+ moviefile))
    (setq counter (1+ counter))
  )
  ;; ball passes thru open door
  (setq counter 0)
  (while (< counter 20)
    (command "move" ss1 "" "0" "00,3")
    (c:render "an_plan")
    (c:saveimg (strcat "C:/Student/RMC/" itoa (moviefile)) "bmp")
    (setq moviefile (1+ moviefile))
  )
)
```



Fifth Skill Focus

Foundation Courses

Residential Architecture

Mechanical Design

Mechanical Processes

Electrical Design

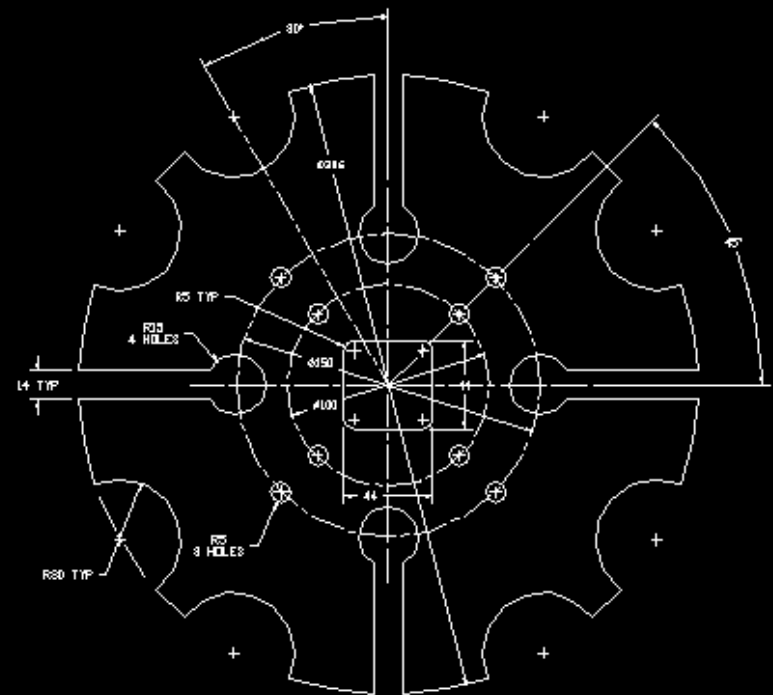
Energy Management

Commerical Architecture

Civil Design

Large Construction Projects

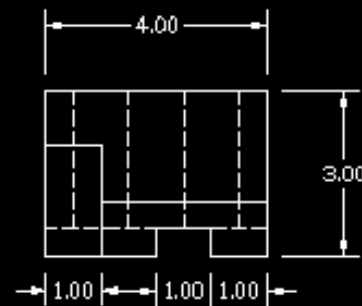
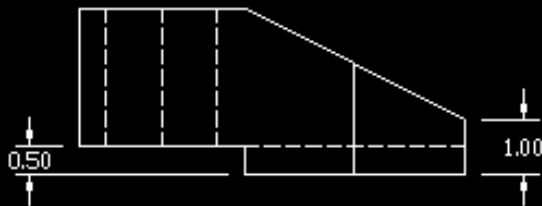
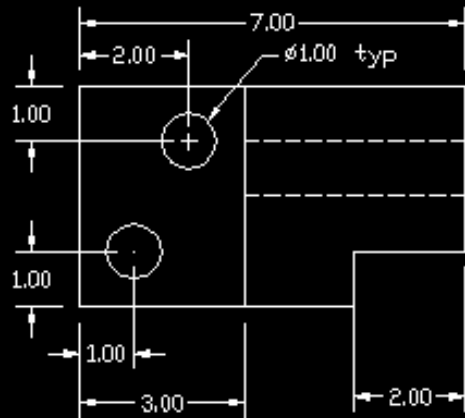
Learning to draw fast



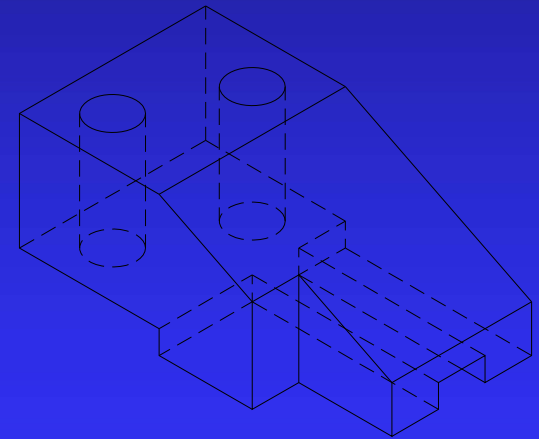
LTSCALE: .5
Dimension Style Filt Scale : 20

The Learning Process

2nd semester starts 3D drawing

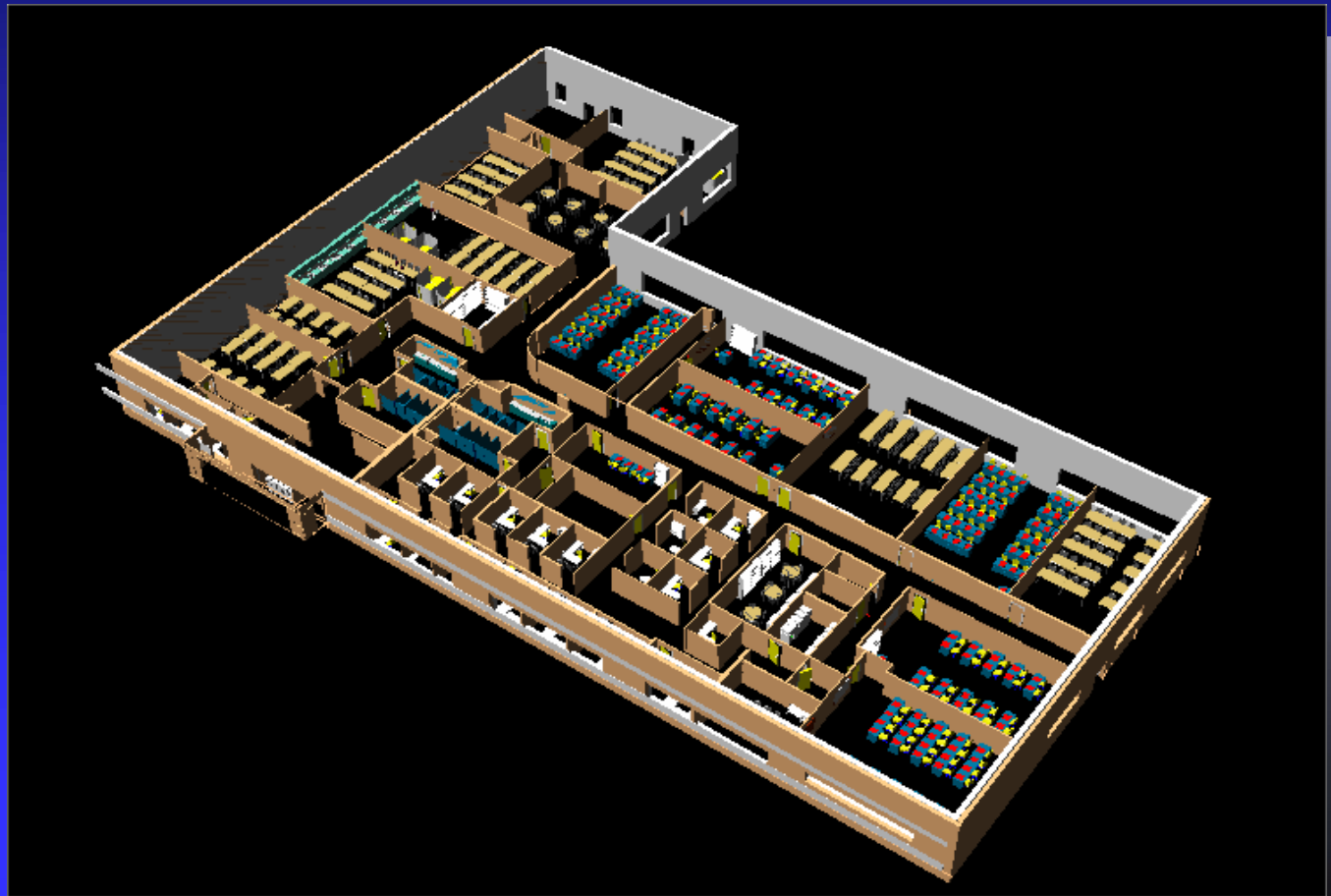


Problem 11 pg 160



The Learning Process

Hands on with an Individual focus



We're looking forward to
seeing you on campus soon!

