# Fish Tank Project Platform Fabrication

EAS 199B Portland State University Mechanical and Materials Engineering

## Learning Objectives for these Slides

### After this presentation you should be able to

- Describe the safety precautions necessary for working in the lab
- Follow the safety precautions necessary for working in the lab
- \* Follow the assembly instructions for the wooden platform
- http://web.cecs.pdx.edu/~eas199/B/howto/fishtank/platform/
- $\ensuremath{\diamond}$  Complete the assembly of the wooden platform

LWTL: Fish Tank Platform Assembly

## Follow these Safety rules

- 1. Do not operate any machine unless you have
  - \* Completed the hold-harmless form (Fall 2012)
  - Been trained to operate the machine
  - Been authorized to do so by the instructor or teaching assistant
- 2. When using rotating equipment such as milling machines, drills and lathes
  - Securely tie long hair back to remove the possibility of it falling below your face
  - Do not wear loose clothing
  - Remove lanyards or jewelry hanging from your neck or wrist

WTL: Fish Tank Platform Assemb

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### Follow these Safety Rules, continued

- 3. When using any power tools like milling machines, drills and lathes
  - Clamp the work piece in a vise or chuck before drilling or cutting
  - Do not hold or restrain the work piece only with your hand
  - \* Make sure safety guards are in place before turning on the machine
  - · Never leave a running tool unattended

#### 4. When working in the lab

- Always wear approved eye protection
- Take common sense precautions and avoid "horse play"
- Keep the work area clean an organized
- \* Never use your own power tools
- \* Only use lab facilities for activities required for EAS 199A, 199B, 199C
- Report damaged equipment, unsafe activities and accidents to the instructor

LWTL: Fish Tank Platform Assembl

# Follow these Safety Rules, continued



LWTL: Fish Tank Platform Assembly

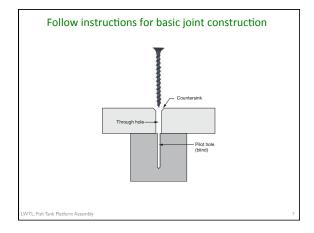
#### Start with the structure

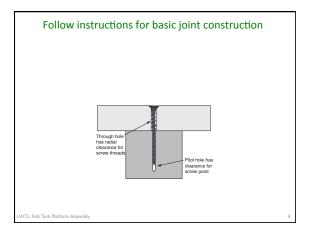
- 1. Materials are provided
- 2. Finish fabrication today
- 3. Have painted by next week
- 4. See
  - http://web.cecs.pdx.edu/eas199/B/howto



WTL: Fish Tank Platform Assembly

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## To-do list for Class Meeting 2

- 1. Sign hold-harmless form
- 2. Sign-up your group members
- 3. Fabricate the fish tank platform
  - See http://web.cecs.pdx.edu/~eas199/B/howto/
- 4. Prepare for next class
  - $\qquad \qquad \bullet \ \, \text{Paint your fish tank platform} \text{finished by next class meeting} \\$
  - \* Read instructions for fabricating the salinity sensor
  - Start homework
  - Visit D2L web site
  - \* Start purchasing items on your shopping list
    - http://web.cecs.pdx.edu/~eas199/B/equipment/

VTL: Fish Tank Platform Assembly