

EE-100 Engineering Laboratory Module2: CAD

Dr. –Ing. Ahmad Kamal Nasir

Office Hours: Room 9-245A

Tuesday (1000-1100)

Thursday (1000-1100)

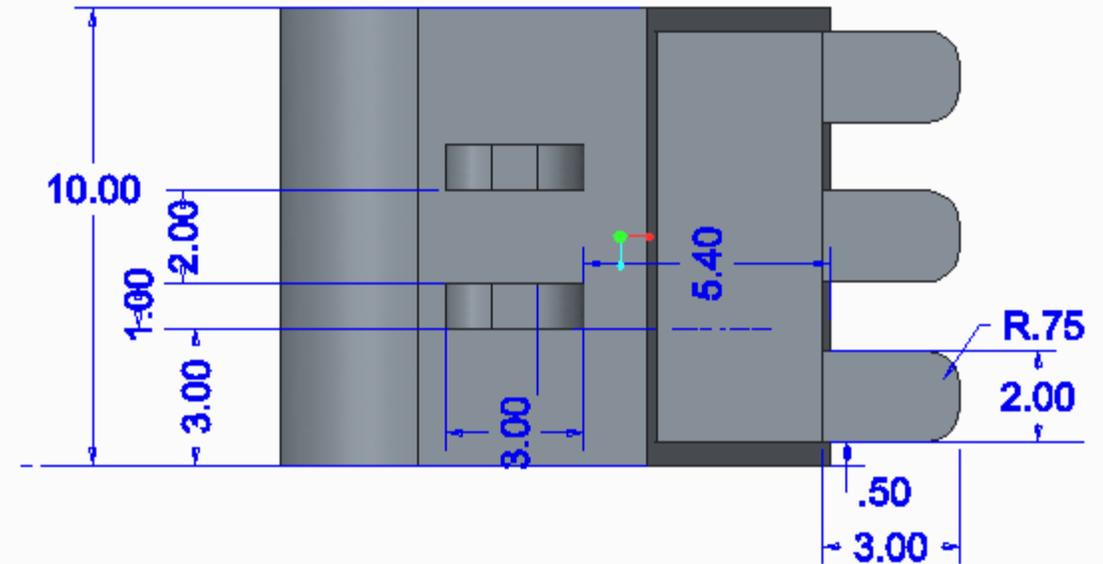
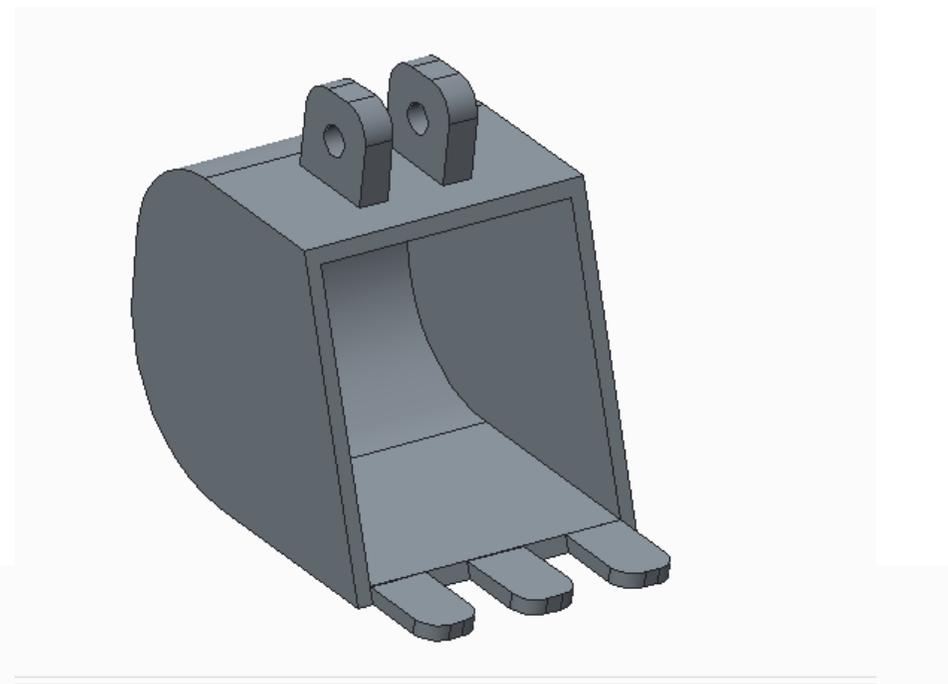
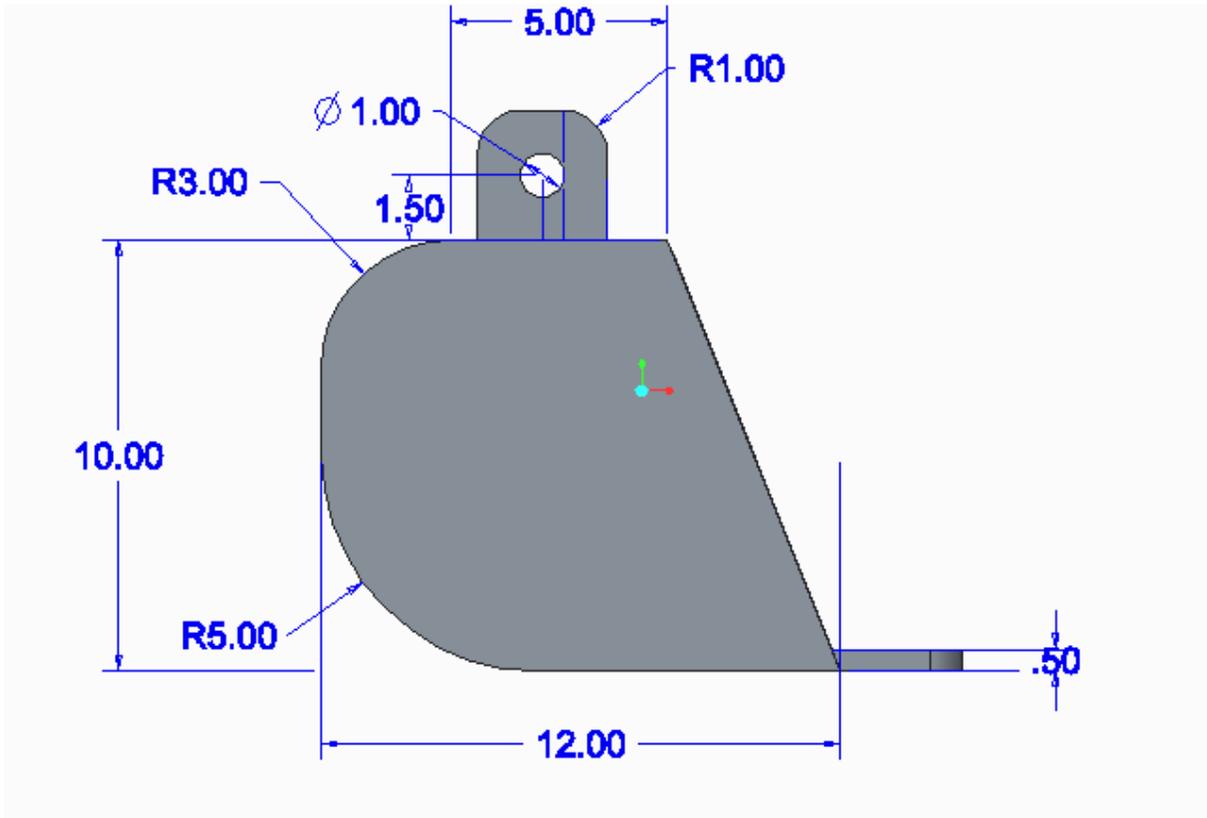
CAD Module

Learning Objective 1: Create and interpret mechanical drawings

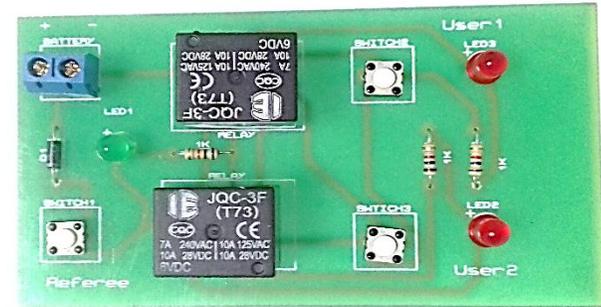
Learning Objective 2: Recall and demonstrate workshop/industrial safety practices.

- Week 1
 - Design methodology for scientists and engineers
 - Introduction to Engineering Drawing
 - Engineering Drawings
 - Standards, Types, Projections
 - **Lab Task 5:** Sketch orthographic projections of solid objects
- Week 2
 - Computer Aided Modeling
 - Intro to PTC Creo and its features
 - 2D sketching
 - Basics of 3D object modeling
 - **Lab Task 6:** 3D part modeling.
- **Week 3**
 - Advanced features of PTC Creo Parametric 2.0:
 - **Lab Task 7:** 3D part modeling
- Week 4
 - Assembly
 - **Lab Task 8:** Assembly task
- Week 5
 - **Lab Task 9:** Create parts and assembly drawings for a robotic hand (gripper)

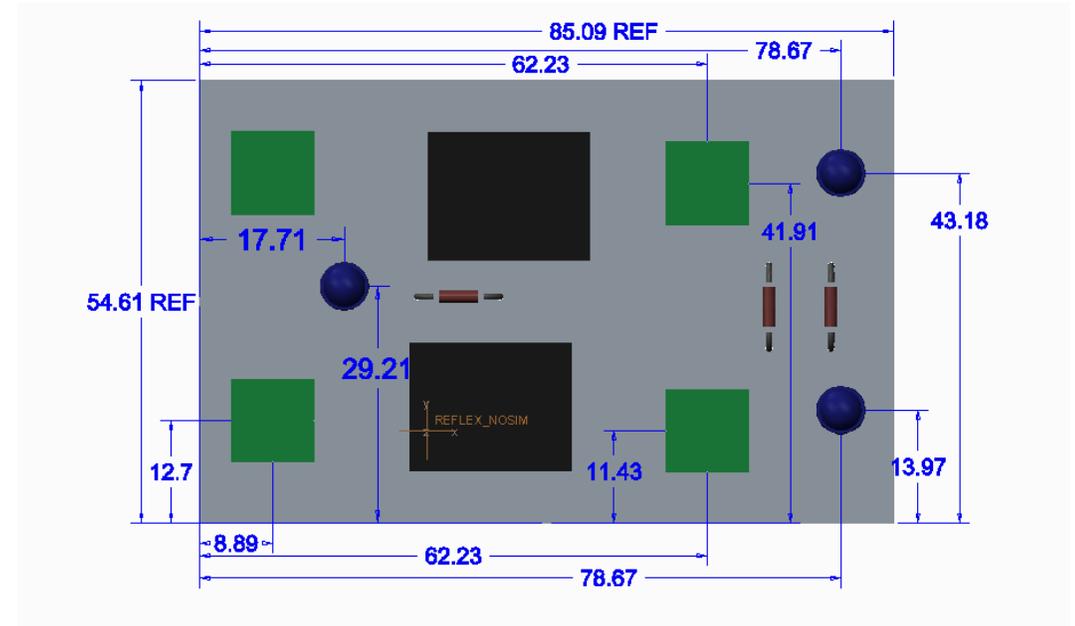
Demonstration 3



Lab Task 6



- You might remember the reflex action game, that you made in the PCB module.
- You are now required to make a housing (box) for this game so that no circuit is visible to the users.



Lab Task 6(A)

