

Computer Aided Design Level 1 Participant Resource Sheet



Computer Aided Design (CAD) is the use of computers to create, analyze and document a design. These processes are valuable in understanding how parts of a robot work together and in the manufacturing of the parts to build a robot. This Level 1 badge is designed to introduce participants to CAD processes. To earn the badge, participants must complete all tasks. Any CAD software program, such as Solidworks, Autodesk Inventor or PTC Creo can be used. Teams should consult the FIRST Resource Library at www.firstinspires.org for the current list of supported products and links for licensing and installation.

Complete all tasks and review with a mentor.

Name: _____ Email used for badges: _____

Badge Completed Date: _____ Date Submitted: _____

Task	Mentor Sign and Date
Describe ISO view, orthographic views (top, right, side)	
Explain absolute and relative measurements.	
Draw a simple iso drawing with dimensions.	
Create a simple 2D drawing part	
Create a simple 3D Part using some of the following tools: simple extrude, revolve, sweep, cut, hole wizard	