

E³ SolidWorks Set-Up (**Administrator**)

Start-Up Settings

Open SolidWorks

Click on SW Icon

Pop-Up: “License Agreement”

Select “Accept”

Pop-Up: “Welcome to SolidWorks”

Check “Do Not Show Me Any Dynamic Help”

Select “Ok”

General System Settings

Set File Menu

Expand “File” Menu and Pin Open

Set New Document Selector Page

Open New Document (blank page icon in upper left “Standard Toolbar”)

Select “Advanced” tab at bottom left

In “Advanced” window

Select “Simple List” icon

(Bank of 3 icons at mid upper/right side: select middle icon)

Select “Cancel”

Set General Tools

Select Tools/Options

Select “General”

Check

Input Dimension Value

Use Shaded Face Highlighting

Show Thumbnail Graphics in Windows Explorer

Use System Separator for Dimensions

Enable Confirmation Corner

Auto-Show Property Manager

Auto-Size Property Manager...

Stop VSTA Debugger...

Uncheck All Others

Select "Drawings"
Uncheck Auto Scale New Drawings

Select "Colors"
Check "Plain Background"
Set "Viewport Background" to light grey
Set "Drawing Background" to light grey

Select "Ok"

General Document Settings

Hide Command Manager/ToolTips

Open New Part
Select View/Toolbars/Customize Menu
Uncheck Command Manager
Select View/Toolbars/Customize
Under Toolbars Tab
Uncheck
 "Enable Command Manager"
 "Show Tooltips"
 "Show on Selection"
 "Show in Shortcut Menu"

Select "Ok"

Turn Off Automatic Relations

Select Tools/Sketch Settings
Uncheck "Automatic Relations"

Hide Automatic Relations

Select Tools/Sketch Settings/Customize Menu
Uncheck "Automatic Relations"

Turn Off Grid/Snap

Select Tools/Options/Document Properties

Grid/Snap
Uncheck "Display Grid"

Select "Go To System Snaps"
Uncheck "Enable Snapping"

Select "Ok"
Close Part (X in far upper right corner)

Create a Custom Drawing Sheet Format

** The E³ Lab incorporates the use of a laser cutter for making parts from SW drawings. To facilitate a more effective fabricating processes with the laser cutter, each school should create a custom Sheet Format that associates with the school's laser cutter. Inclusion of a reference grid in the custom template is recommended.*

Move all SW Pre-Set Drawing Sheet Formats (.slddrt)

** To minimize the confusion when learning SolidWorks it is helpful to place unnecessary sheet formats in a separate folder location.*

Navigate to C:\Program Data\SolidWorks\SolidWorks 2014\lang\english\sheetformats
Create a New Folder "SW Pre-Set Sheet Formats"
Move all sheet formats into the new folder.

Set New Drawing Sheet Format

Open New Drawing

X out of Sheet Format Window (Pop-Up in Center)

X out of Property Manager (Left Hand Window)

Right Click on "Sheet 1" Tab (bottom of page) and select Properties

Click on "Custom Sheet Size" and enter the appropriate values*

*Example E³ Custom Sheet Format Settings (Universal VLS 3.5 Laser Cutter):

W = 24.000" H = 12.000" Scale = 1:1

Save New Drawing Sheet Format

Select File/Save Sheet Format

Name new format ("School" Laser-Cutter) *Example: Hill Laser-Cutter

Save

**Note – Sheet Format only saves sheet size and scale. All properties such as line weight, color, etc. must be formatted and saved in a Drawing Template.*

Close Drawing (X in far upper right corner)

Pop-Up: "Save Modified Documents"

Select "Don't Save"

Create Document Templates

Set E3 Parts Template

Open New Part

Set Part Document Properties

Select Tools/Options/Document Properties

Select Units

Check “IPS – inch/pound/second

Length – set ALL decimal places settings at 4

Select “Ok”

Set Part Views

Select View

Check

Origins

Curves

Sketches

All Annotations

Points

Routing Points

Feature Manager Tree Area

Toolbars

Status Bar

Uncheck All Others

Set Part Toolbars

Select View/Toolbars/Customize

Check

Features

Reference Geometry

Sketch

Standard Views

Uncheck All Others

**If there is a toolbar that does not go away, drag it to the drawing pane, right-click on it and select hide.*

Remove/Add Tool Buttons from the Sketch and Feature Toolbars

Select View/Toolbars/Customize/Command

Select Sketch

Reference the Sketch Toolbar diagram below

Drag all tool buttons not in the diagram off the Sketch Toolbar and into the Sketch Command Window

Drag any missing tool buttons from the Command Window and onto the Sketch Toolbar and place in the noted location.

Select Features

Reference the Features Toolbar diagram below

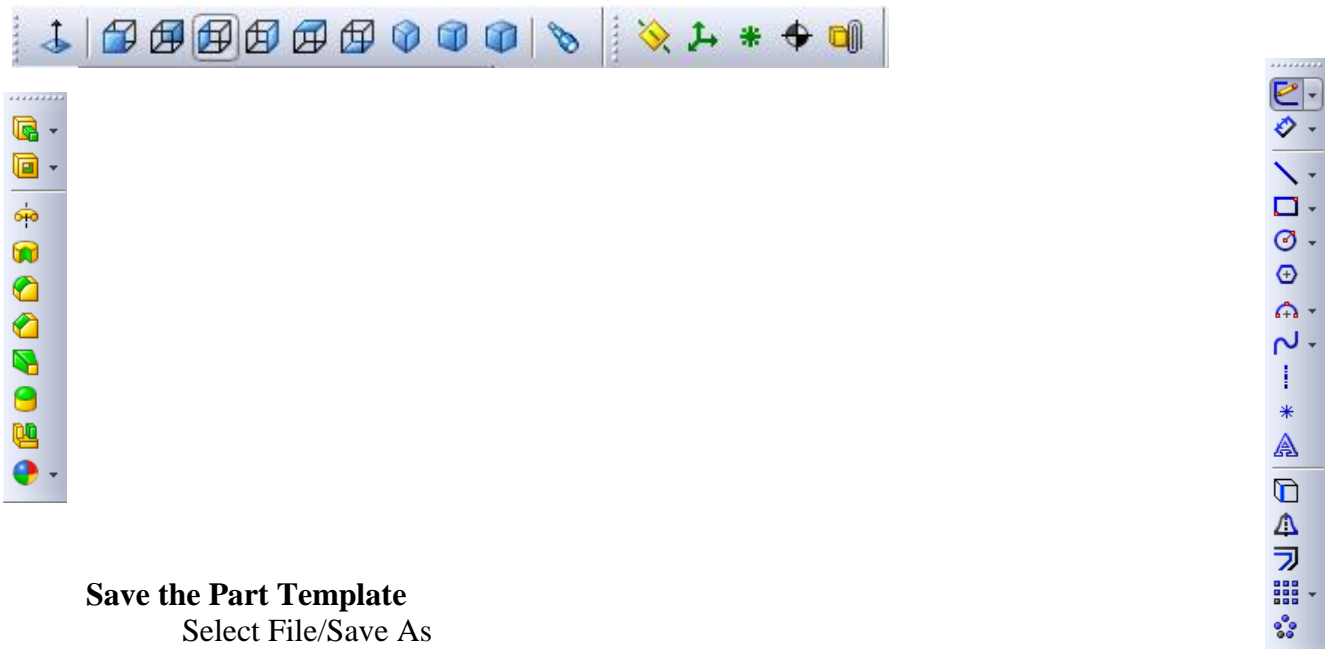
Drag all tool buttons not in the diagram off the Features Toolbar and into the Features Command Window

Drag any missing tool buttons from the Command Window and onto the Reference Toolbar and place in the noted location.

Select "Ok"

Arrange Toolbars

Arrange Toolbars so that all buttons and locations match the diagrams below.



Save the Part Template

Select File/Save As

Choose "Parts Template" as the file type

Name new templates (E3 Part)

Select Save

Close Part

Set E3 Assembly Template

Open New Assembly
X out “Insert Component”

Set Assembly Document Properties

Select Tools/Options/Document Properties

Units

Check “IPS – inch/pound/second
Length – set ALL decimal place settings at 4

Select “Ok”

Set Assembly Views

Select View

Check

Curves
Sketches
All Annotations
Points
Routing Points
Feature Manager Tree Area
Toolbars
Status Bar

Uncheck All Others

Set Assembly Toolbars

Select View/Toolbars/Customize

Check

Assembly
Reference Geometry
Sketch
Standard Views

Uncheck All Others

**If there is a toolbar that does not go away, drag it to the drawing pane, right-click on it and select hide.*

Remove Tool Buttons from the Assembly Toolbar

Select View/Toolbars/Customize/Command

Select Assembly

Reference the Assembly Toolbar diagram below and drag all tool buttons not in the diagram off the Assembly Toolbar and into the Assembly Command Window (*View/Toolbars/Customize/Command/Assembly*)

Select “Ok”

Arrange Assembly Toolbars

Arrange Toolbars so that all buttons and locations match the diagrams below.



Save the Assembly Template

Select File/Save As

Choose "Assembly Template" as the file type

Name new templates (E3 Assembly)

Select Save

Close Assembly

Set E3 Drawing Template

Open New Drawing
Select sheet format (i.e. "School" Laser-Cutter)
X out "Insert Component"

Set Drawing Document Properties

Select Tools/Options/Document Properties

Detailing

Under "Auto Insert on View Creation"

Uncheck ALL "Center Marks"

Uncheck "Show Halo around Annotations"

Units

Check "IPS – inch/pound/second"

Length – set ALL decimal place settings at 4

Line Font

Visible Edges set to "Solid" and "Thin"

Select "Ok"

Set Drawing Views

Select View

Check

Sketches

Points

Routing Points

Feature Manager Tree Area

Toolbars

Status Bar

Uncheck All Others

Set Drawing Toolbars

Select View/Toolbars/Customize

Check

Drawing

Line Format

Uncheck All Others

Remove Tool Buttons from the Drawing Toolbars

Select View/Toolbars/Customize/Command

Select Drawing

Reference the Drawing Toolbar diagram below and drag all tool buttons not in the diagram off the Drawing Toolbar and into the Drawing Command Window (*View/Toolbars/Customize/Command/Drawing*)

Select “Ok”

Arrange Toolbars

Arrange Toolbars so that all buttons and locations match the diagrams below.



Save the Drawing Template

Select File/Save As

Choose “Drawing Template” as the file type

Name new templates (E3 Drawing)

Select Save

Close Drawing

Move all SW Pre-Set Templates (.slddot)

** To minimize the confusion when learning SolidWorks it is helpful to place unnecessary templates in a separate folder location.*

Navigate to C:\Program Data\SolidWorks\SolidWorks 2013\templates
Create a New Folder “SW Pre-Set Templates”
Move the SW pre-set templates into this folder.

Create SW Settings File

Select Tools/Save Restore SW Settings
Browse to Desktop
Save

Move SW Settings File to Public Desktop (C:/Users/Public/Public Desktop)