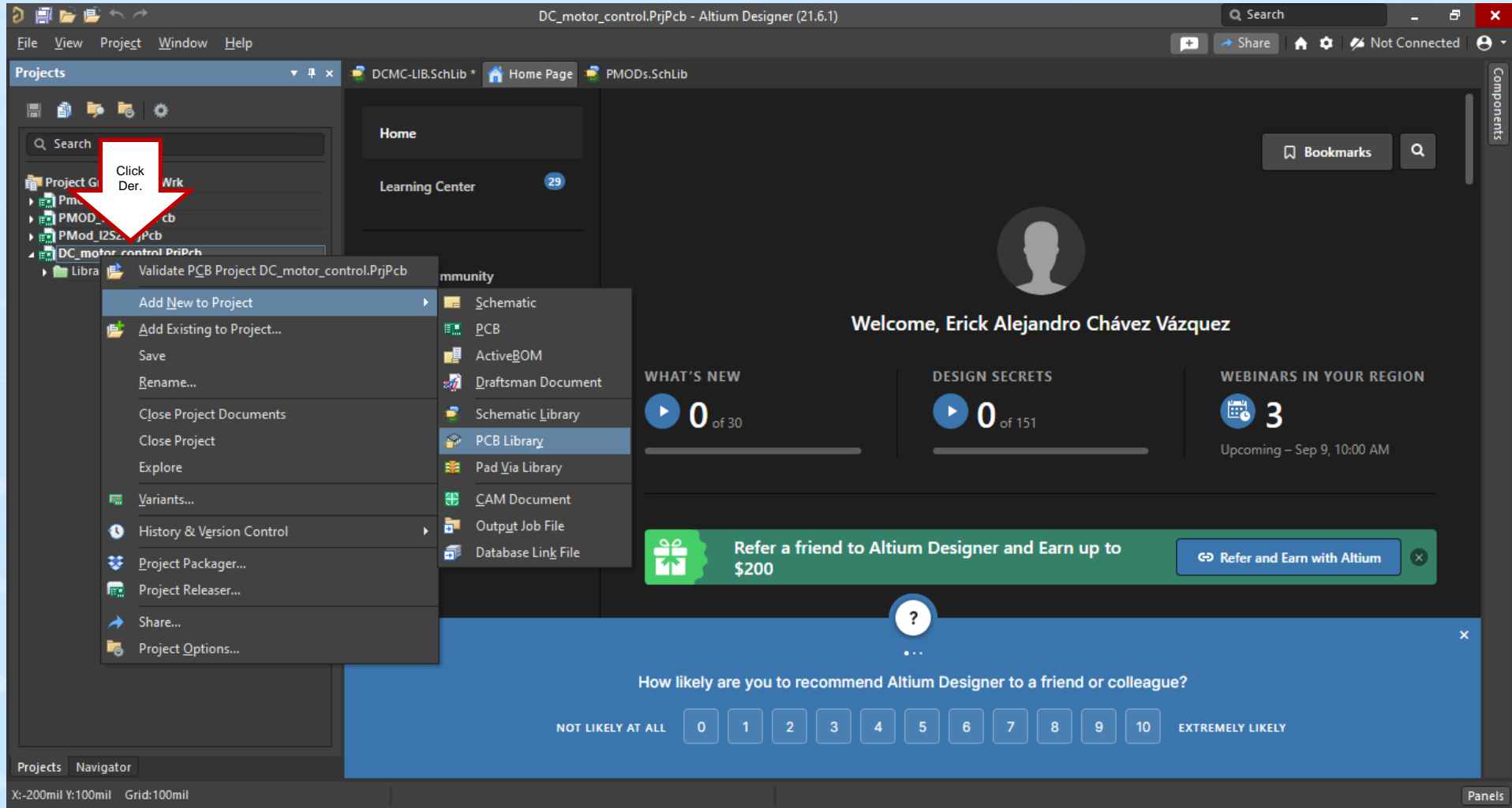


Creación de librería de geometrías (Footprints)



The screenshot shows the Altium Designer (21.6.1) interface. The 'Projects' panel on the left lists several projects, including 'DC_motor_control.PrjPcb'. A red arrow points to the 'DC_motor_control.PrjPcb' project, with a text box saying 'Click Der.'. The 'Add New to Project' menu is open, showing options like 'Schematic', 'PCB', 'ActiveBOM', 'Draftsman Document', 'Schematic Library', 'PCB Library', 'Pad Via Library', 'CAM Document', 'Output Job File', and 'Database Link File'. The 'PCB Library' option is highlighted. The main workspace displays a 'Welcome' message for Erick Alejandro Chávez Vázquez, along with sections for 'WHAT'S NEW', 'DESIGN SECRETS', and 'WEBINARS IN YOUR REGION'. A green banner at the bottom promotes a referral program, and a blue banner at the very bottom asks for a recommendation rating.

Altium Designer (21.6.1) interface showing the 'Projects' panel and the 'Add New to Project' menu. The 'PCB Library' option is highlighted in the menu.

Projects: DCMC-LIB.SchLib, Home Page, PMODs.SchLib

Search: Click Der.

Projects:

- Project G...
- PM...
- PMOD_...
- PMOD_I2S...
- DC_motor_control.PrjPcb
- Libra...

Validate PCB Project DC_motor_control.PrjPcb

Add New to Project

- Schematic
- PCB
- ActiveBOM
- Draftsman Document
- Schematic Library
- PCB Library
- Pad Via Library
- CAM Document
- Output Job File
- Database Link File

Home

Learning Center 29

Welcome, Erick Alejandro Chávez Vázquez

WHAT'S NEW 0 of 30

DESIGN SECRETS 0 of 151

WEBINARS IN YOUR REGION 3 Upcoming - Sep 9, 10:00 AM

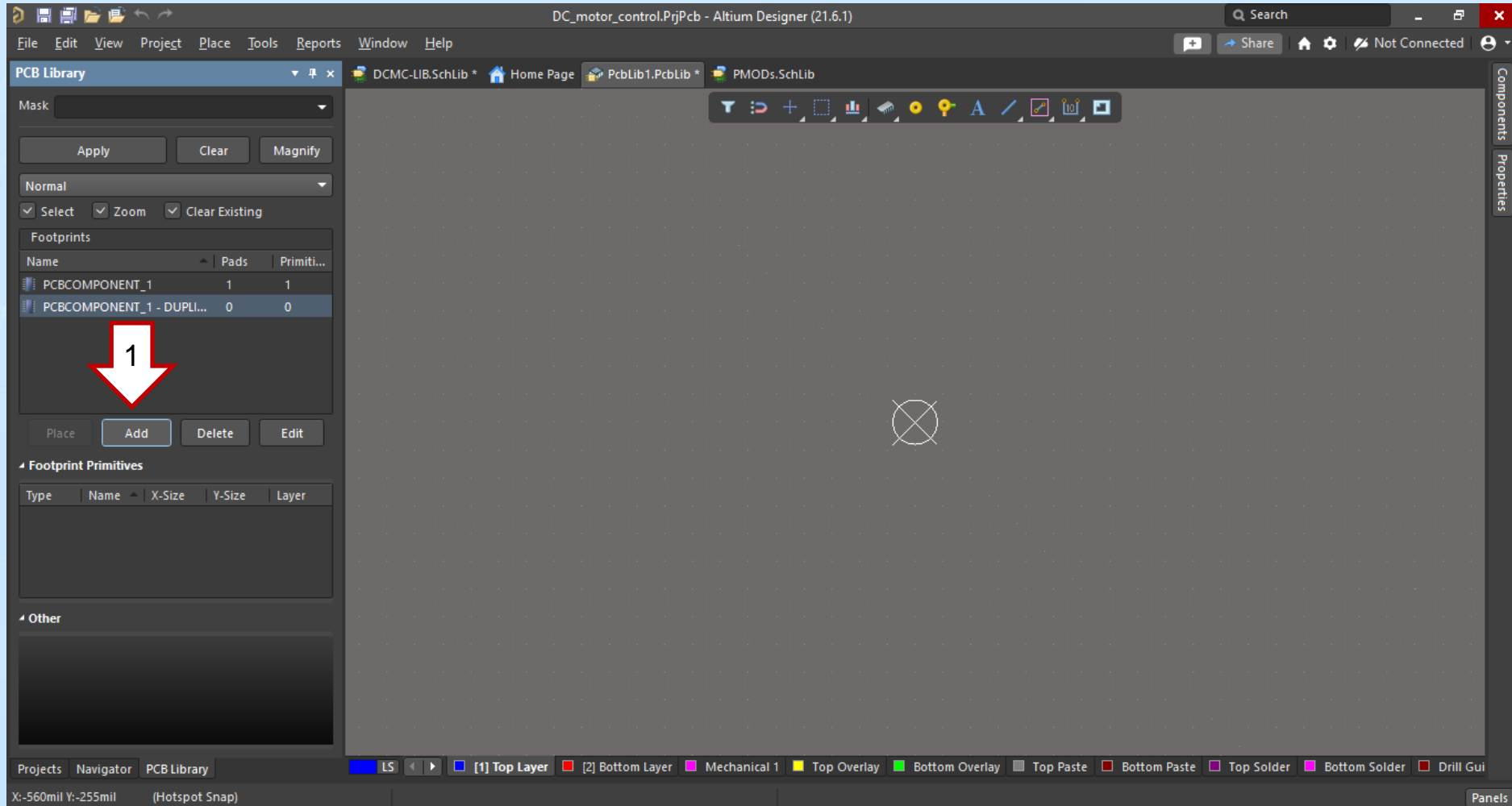
Refer a friend to Altium Designer and Earn up to \$200

Refer and Earn with Altium

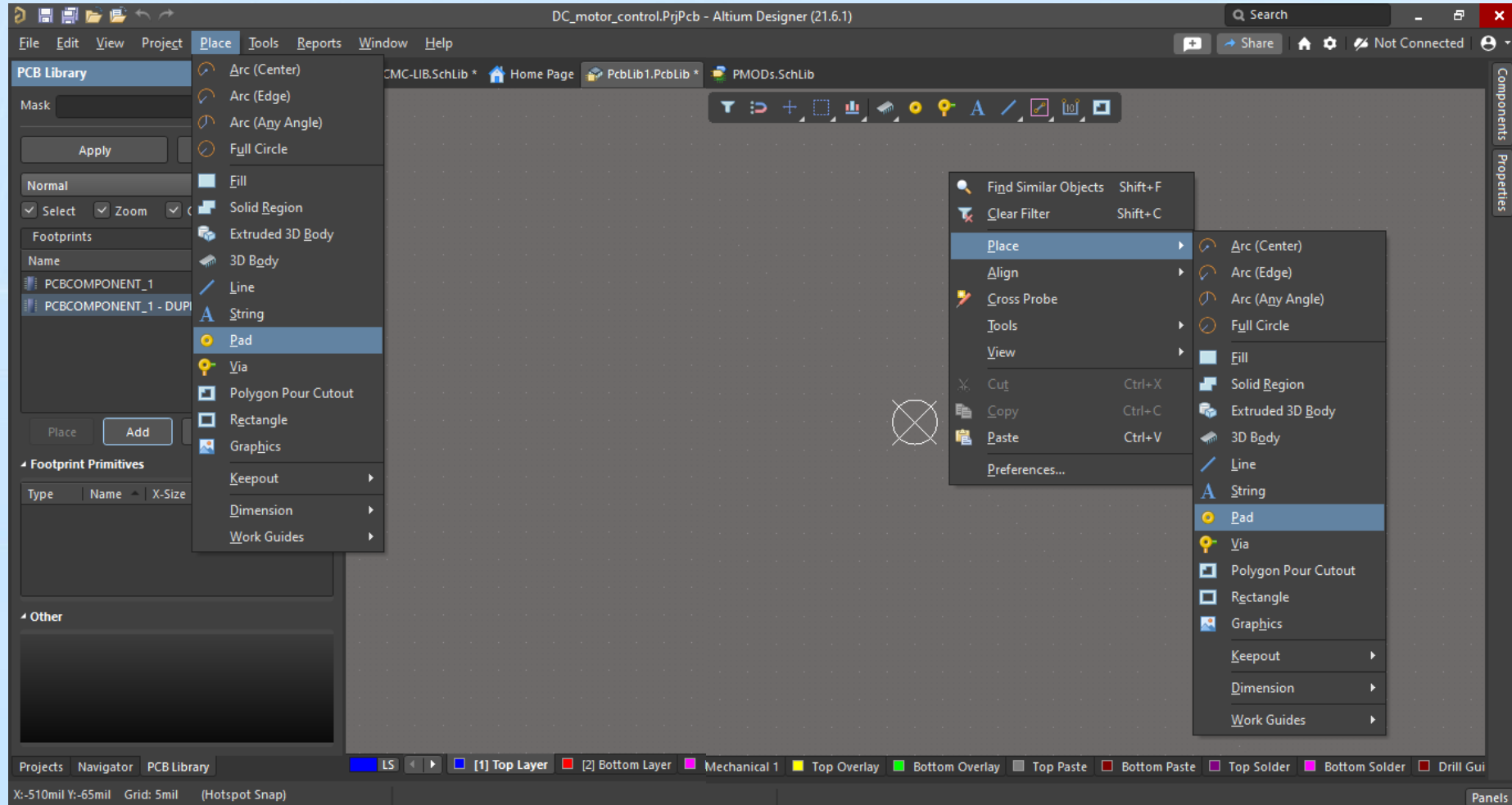
How likely are you to recommend Altium Designer to a friend or colleague?

NOT LIKELY AT ALL 0 1 2 3 4 5 6 7 8 9 10 EXTREMELY LIKELY

Pasos para la creación de una geometría

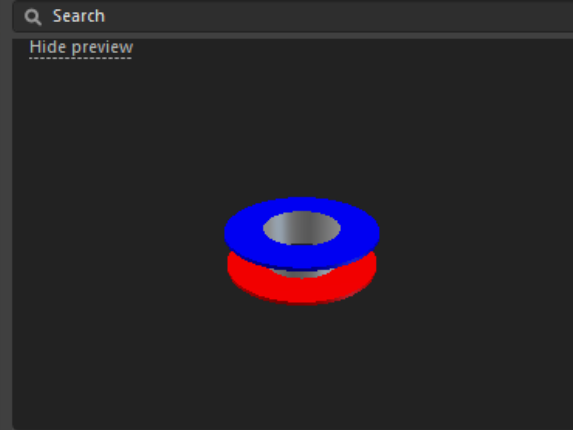
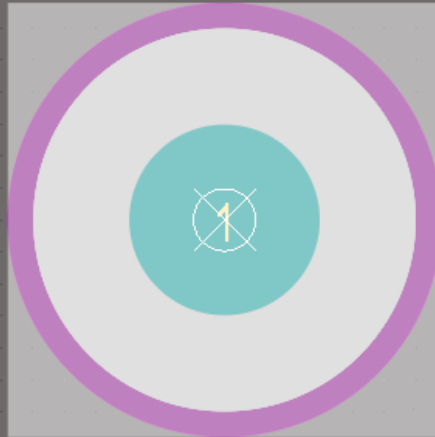


Herramientas para la creación de geometrías



Creación de un Pad THT

-Doble click izquierdo del ratón sobre el pad



Search
Hide preview

Simple Top-Middle-Bottom Full Stack

Shape ☐ Round

(X/Y) 60mil 60mil

Corner Radius 50%

Thermal Relief ☐ Relief, 10mil, 10mil, 4, 90

Offset From Hole Center (X/Y) 0mil 0mil

☒ Round ☐ Rect ☐ Slot

Hole Size 30mil

Tolerance + N/A - N/A

Length 0mil

Rotation 0.000

☒ Plated

Properties

Designator 1

Layer Multi-Layer

Electrical Type Load

Propagation Delay 0ps

Pin Package Length 0mil

Jumper 0

Template c152h76

Library <Local>

(X/Y) 0mil 0mil

Rotation 0.000

Pad Stack

Paste Mask Expansion

Rule Manual

0mil

Solder Mask Expansion

Rule Manual

Top 4mil

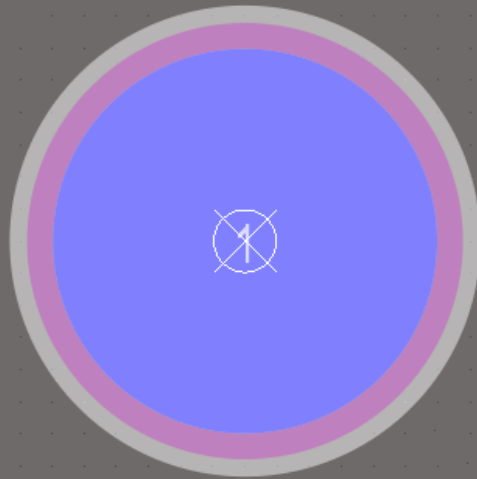
Bottom 4mil

☐ Tented

☐ Tented

Creación de un Pad SMT

-Doble click izquierdo del ratón sobre el pad



Search

Properties

Designator: 1

Layer: Top Layer

Electrical Type: Load

Propagation Delay: 0ps

Pin Package Length: 0mil

Jumper: 0

Template: c152

Library: <Local>

(X/Y): 0mil 0mil

Rotation: 0.000

Pad Stack

Paste Mask Expansion

Rule Manual

0mil

Solder Mask Expansion

Rule Manual

Top: 4mil

Bottom: 4mil

Tented

Tented

Simple Top-Middle-Bottom Full Stack

Shape: Round

(X/Y): 60mil 60mil

Corner Radius: 50%

Thermal Relief: Relief, 10mil, 10mil, 4, 90

Offset From Hole Center (X/Y): 0mil 0mil

Paste Mask Expansion

Solder Mask Expansion

Testpoint

Fabrication: Top Bottom

Assembly: Top Bottom

Layers para footprint o geometrías

Capas obligatorias:

- Top Layer
- Bottom Layer
- Top Solder: Máscara de Soldadura
- Bottom Solder: Macara de Soldadura
- Top Paste: Máscara de Pasta
- Bottom Paste: Macara de Pasta

Otras capas:

- Top Overlay – Serigrafía
- Bottom Overlay – Serigrafía
- Mechanical1 – Capa de Ensamble
- Mechanical3 – 3D
- Mechanical13 – Referencia
- Mechanical15 – Distancia minima entre componentes

Selección de layers

DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Reports Window Help

PCB Library

Mask

Apply Clear Magnify

Normal

☒ Select ☒ Zoom ☒ Clear Existing

Footprints

Name	Pads	Primiti...
PCBCOMPONENT_1	1	1

Place Add Delete Edit

Footprint Primitives

Type	Name	X-Size	Y-Size	Layer
Pad	1	60mil	60mil	Multi...

Other

View Configuration

Search

Layers & Colors View Options

Layers

- All Layers Used On
- Signal And Plane Layers (S) Used On
 - [1] Top Layer (T) Signal
 - [2] Bottom Layer (B) Signal
- Component Layer Pairs (C) Used On
 - Board Layer Stack Used On
- Top Layer Bottom
 - Overlay
 - Paste
 - Solder
- Mechanical Layers (M) Used On
 - Mechanical 1 M1
- Other Layers (O) Used On
 - Drill Drawing
 - Drill Guide
 - Keep-Out Layer
 - Multi-Layer

Layer Sets All Layers

Active Layer Top Layer

☐ View From Bottom Side (Ctrl + F)

Import Export

Click

Projects Navigator PCB Library

LS [1] Top Layer [2] Bottom Layer Mechanical 1 Top Overlay Bottom Overlay Top Paste Bottom Paste Top Solder Bottom Solder Drill Gui

X: 50mil Y: 40mil Grid: 5mil (Hotspot Snap)

Panels

Agregar un Mechanical

DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Reports Window Help

PCB Library

Mask

Apply Clear Magnify

Normal

Select Zoom Clear Existing

Footprints

Name	Pads	Primiti...
PCBCOMPONENT_1	1	1

Place Add Delete Edit

Footprint Primitives

Type	Name	X-Size	Y-Size	Layer
Pad	1	60mil	60mil	Multi...

Other

View Configuration

Layers & Colors View Options

Layers

- All Layers
 - Signal And Plane Layers (S)
 - [1] Top Layer (T)
 - [2] Bottom Layer (B)
 - Component Layer Pairs (C)
 - Board Layer Stack
- Mechanical Layers (M)
 - Mechanical 1
 - Other Layers (O)
 - Drill Drawing
 - Drill Guide
 - Keep-Out Layer
 - Multi-Layer

Click Der.

1

2

Edit Layer Mechanical 2

Layer Name: Mechanical 2

Layer Number: 2

Layer Type: N/A

OK Cancel

Layer Stack Manager

Add Component Layer Pair

Add Mechanical Layer

Edit Layer

Delete Layer

Layer Sets: My Layers

Active Layer: Top Layer

View From Bottom Side (Ctrl + F)

Import Export

Projects Navigator PCB Library

LS [1] Top Layer [2] Bottom Layer Mechanical 1 Top Overlay Bottom Overlay Top Paste Bottom Paste Top Solder Bottom Solder Drill Gui

X: 50mil Y: 40mil Grid: 5mil (Hotspot Snap)

Search

Share

Not Connected

Components Properties

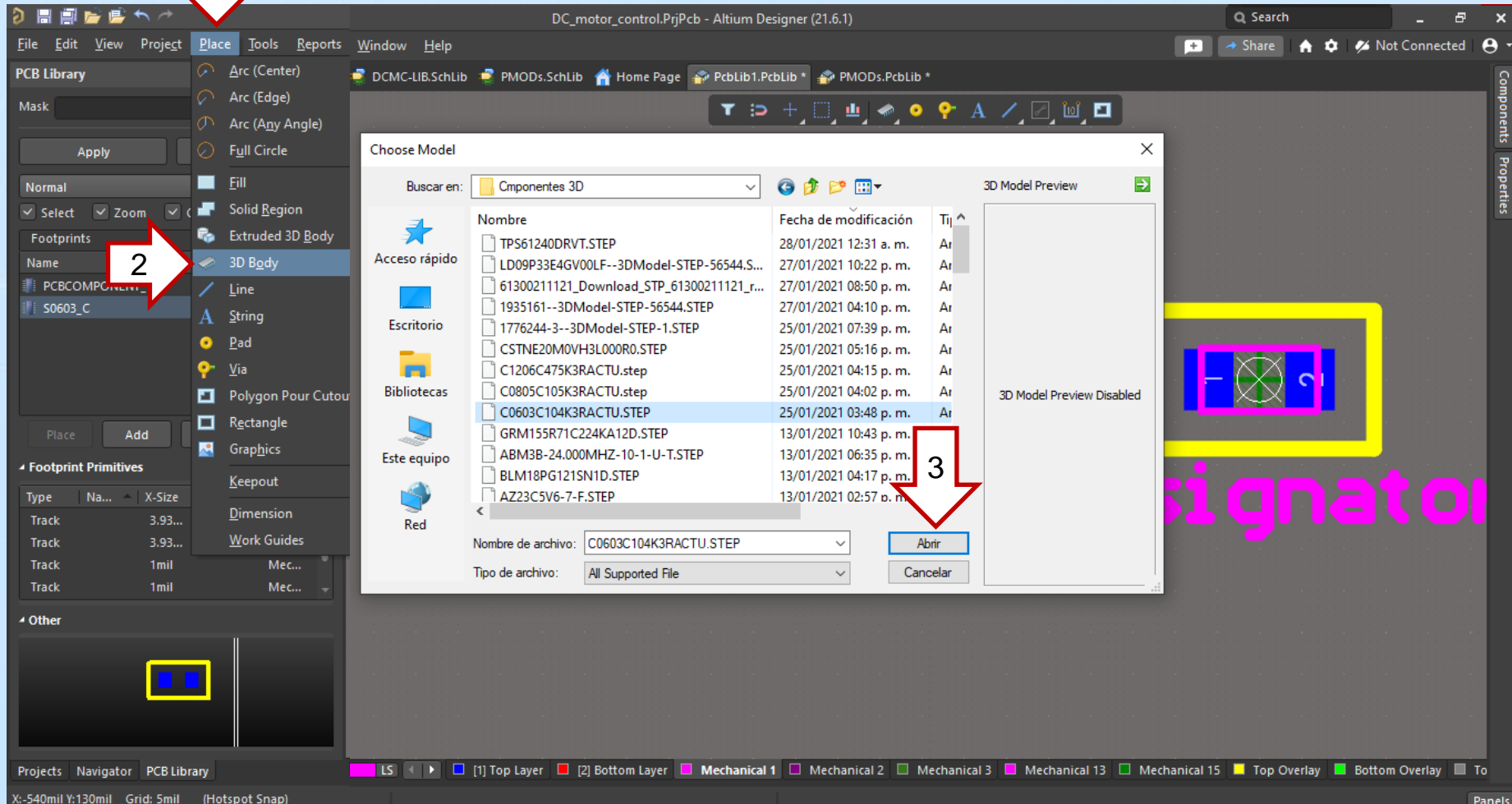
1

Agregar un elemento 3D a un footprint o geometría

1

2

3



DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Reports Window Help

PCB Library

Mask

Apply

Normal

Select Zoom

Footprints

Name

PCBCOMPONENT_

S0603_C

Place Add

Footprint Primitives

Type	Na...	X-Size
Track	3.93...	
Track	3.93...	
Track	1mil	Mec...
Track	1mil	Mec...

Other

Projects Navigator PCB Library

X: 540mil Y: 130mil Grid: 5mil (Hotspot Snap)

Choose Model

Buscar en: Componentes 3D

Nombre	Fecha de modificación	Ti...
TPS61240DRV.TSTEP	28/01/2021 12:31 a. m.	Ar
LD09P33E4GV00LF--3DModel-STEP-56544.S...	27/01/2021 10:22 p. m.	Ar
61300211121_Download_STP_61300211121_r...	27/01/2021 08:50 p. m.	Ar
1935161--3DModel-STEP-56544.STEP	27/01/2021 04:10 p. m.	Ar
1776244-3--3DModel-STEP-1.STEP	25/01/2021 07:39 p. m.	Ar
CSTNE20MOVH3L000R0.STEP	25/01/2021 05:16 p. m.	Ar
C1206C475K3RACTU.step	25/01/2021 04:15 p. m.	Ar
C0805C105K3RACTU.step	25/01/2021 04:02 p. m.	Ar
C0603C104K3RACTU.STEP	25/01/2021 03:48 p. m.	Ar
GRM155R71C224KA12D.STEP	13/01/2021 10:43 p. m.	Ar
ABM3B-24.000MHZ-10-1-U-T.STEP	13/01/2021 06:35 p. m.	Ar
BLM18PG121SN1D.STEP	13/01/2021 04:17 p. m.	Ar
AZ23C5V6-7-F.STEP	13/01/2021 02:57 p. m.	Ar

Nombre de archivo: C0603C104K3RACTU.STEP

Tipo de archivo: All Supported File

Abrir Cancelar

3D Model Preview

3D Model Preview Disabled

signator

Agregar footprint a los símbolos

DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Reports Window Help

SCH Library

Design Item ID	Description
C0603C103K3HACT1	CAP CER 0.01UF 25V X8R 060
C0603C104K3RAC7C	CAP CER 0.1UF 25V X7R 0603
SD103CW-13-F	DIODE SCHOTTKY 20V 350mA
LM555CMM/NOPB	IC OSC SGL TIMER 100KHZ 8V
PRS11S-N20K-103B1	POT 10K OHM 1/20W CARBO
ERJ-U03F1001V	RES 1K OHM 1% 1/10W 0603
ERJ-U03F1001V_1	RES 1K OHM 1% 1/10W 0603
ERJ-U03F47R0V	RES 47 OHM 1% 1/10W 0603
1935161	TERM BLK 2POS SIDE ENTRY !
MMBT5089LT1G	TRANS NPN 25V 50MA SOT23

Place Add Delete Edit

Projects Navigator SCH Library

Add Footprint Remove Edit...

PCB Model

Footprint Model

Name Model Name Browse... Pin Map...

Description Footprint not found

PCB Library

☒ Any

☐ Library name

☐ Library path

☐ Use footprint from component library *

Selected Footprint

Found in:

Browse Libraries

Libraries DCMC-LIB.PcbLib Find...

Mask

Name	Library	Description
1935161	DCMC-LIB.PcbLib	2 Bloques de term
S0603-C KEMET	DCMC-LIB.PcbLib	
s0603_c	DCMC-LIB.PcbLib	Chip Capacitor, 2
s0603_r	DCMC-LIB.PcbLib	Chip Resistor, 2-L
SOD-123	DCMC-LIB.PcbLib	SOD-123
SOT-23	DCMC-LIB.PcbLib	SOT-23
VSSOP-8	DCMC-LIB.PcbLib	3.10mm x 5.05mm

7 items

2D

OK Cancel

OK Cancel

1 2 3 4 5