

ROBOT BAJO COSTE: ARDUINO Y 3D

C.F.I.E. MIRANDA DE EBRO
ENERO – FEBRERO 2020



¿Por qué?

BEE-BOT

INFANTIL - PRIMARIA
COMPLEMENTOS

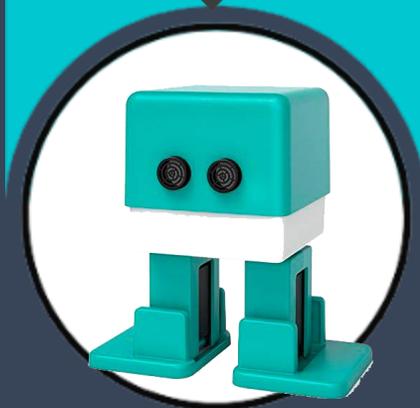
55 €



BQ-ZOWI

INFANTIL - PRIMARIA
COMPLEMENTOS

70 €



LEGO

INFANTIL - PRIMARIA
Set básico LEGO®

191 €



ROBOTIS STEM

SECUNDARIA
COMPLEMENTOS

289 €



FISCHERTECHNIK

FP - BACHILLERATO
COMPLEMENTOS

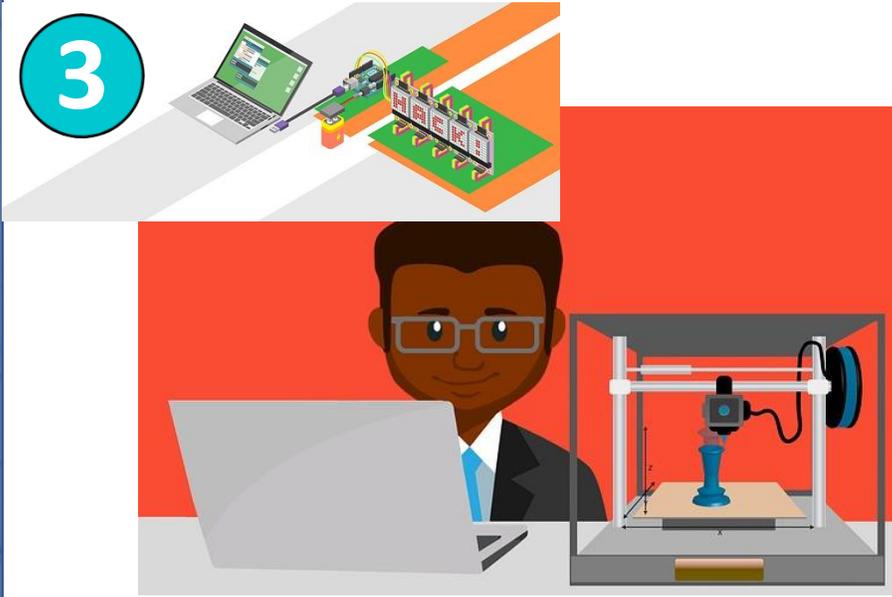
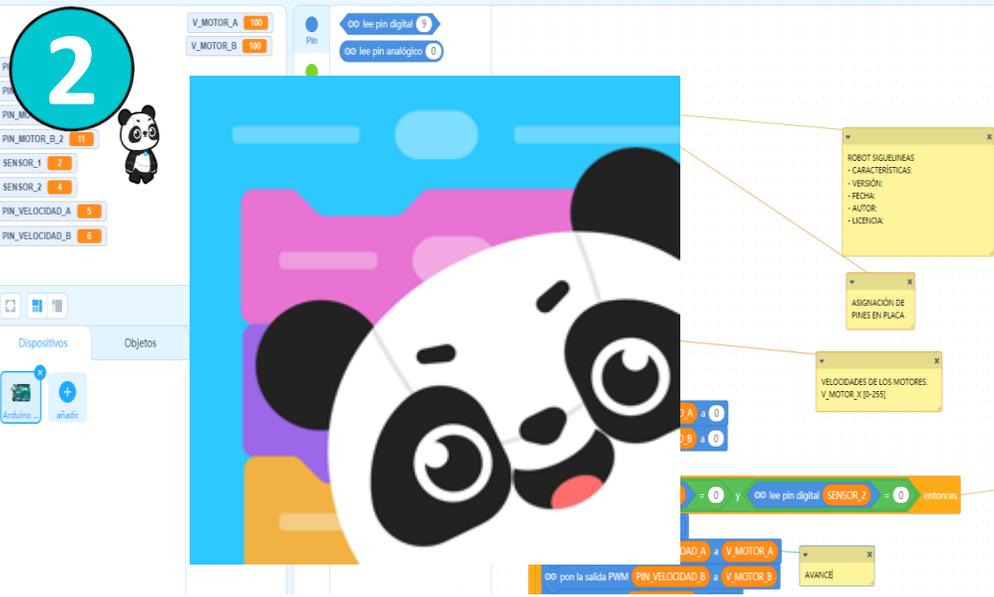
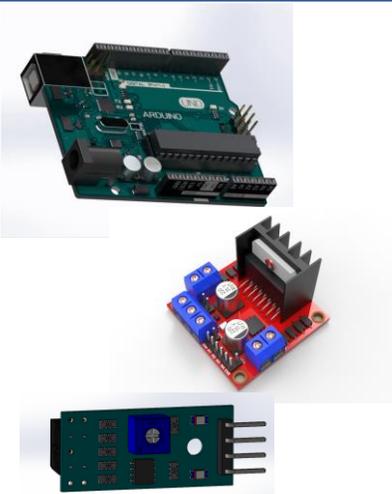
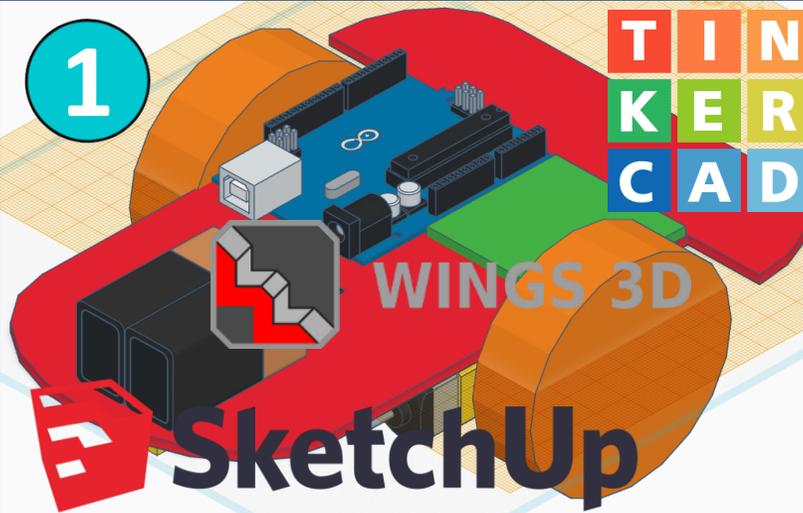
359 €



75 €



Objetivos



Etapas

1

► **Diseño**

Sesión 1: 15 enero

2

► **Electrónica
Programación**

Sesión 2: 22 enero

Sesión 3: 5 febrero

3

► **Construcción
y testeo**

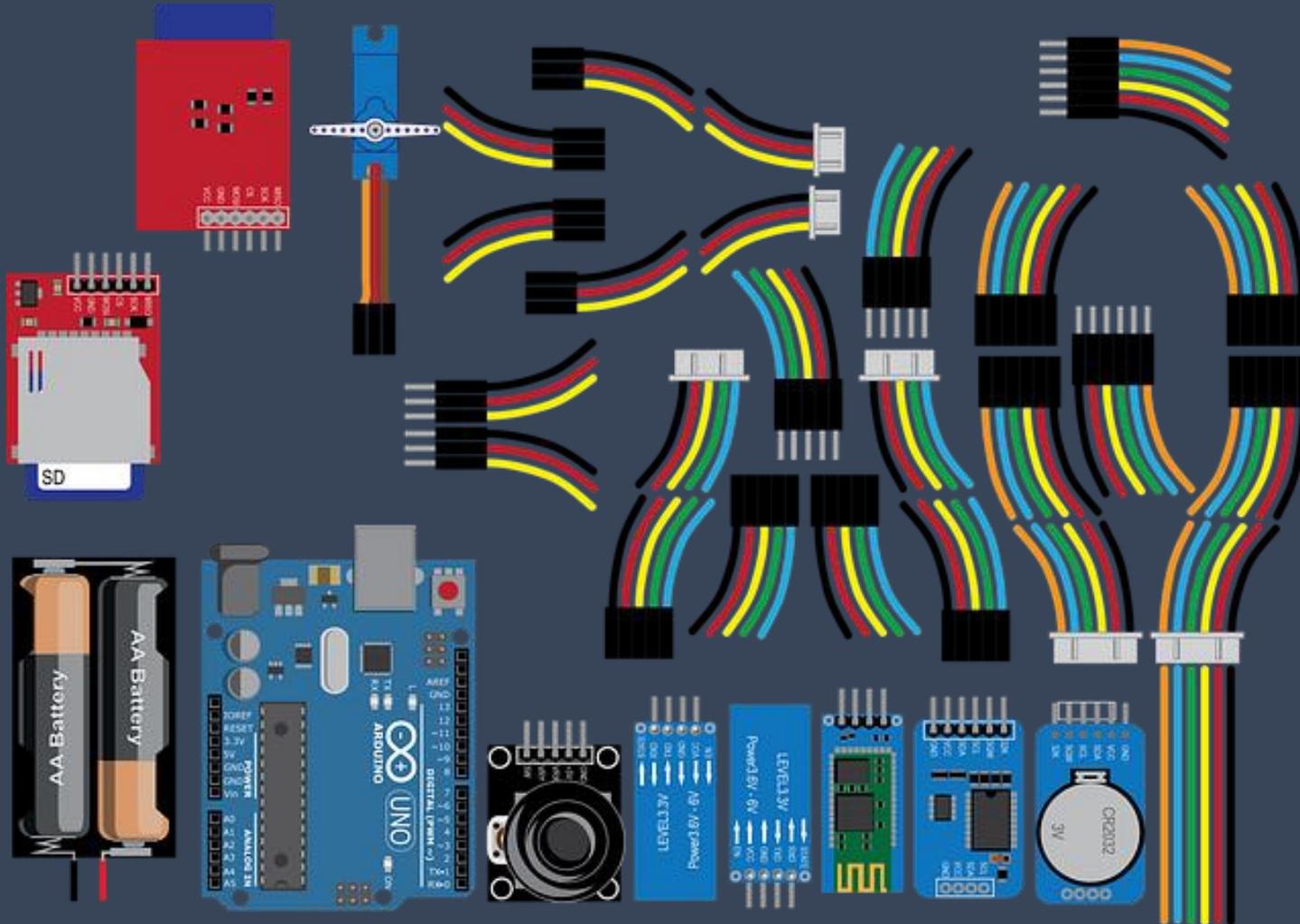
Sesión 4: 12 febrero



1

Diseño

1
SESIÓN



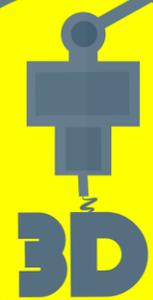
MATERIALES
REUTILIZABLES



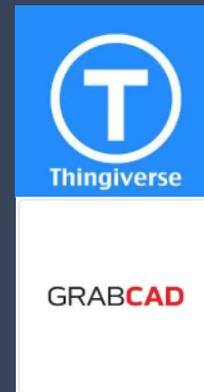
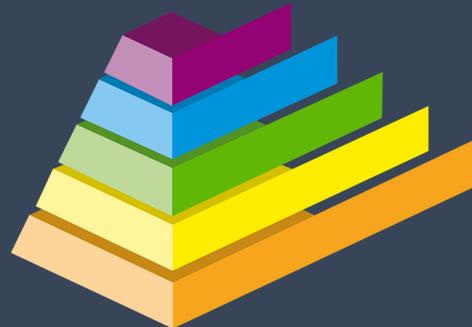
COMPONENTES
COMPATIBLES



ESCALABLE



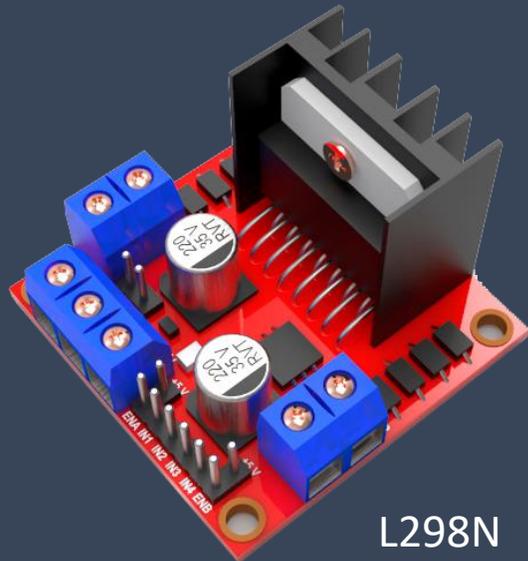
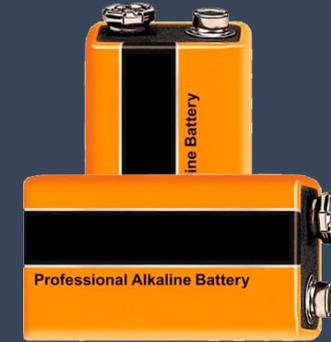
SOFTWARE	DISPOSICIÓN	BIBLIOTECAS DISEÑOS	DIFICULTAD
 AUTODESK AUTOCAD	LICENCIA	SI	ALTA
 SketchUp	LIMITADO	SI	BAJA
 WINGS 3D	ILIMITADO	SI	MEDIA
 TINKER CAD	ILIMITADO	SI	BAJA



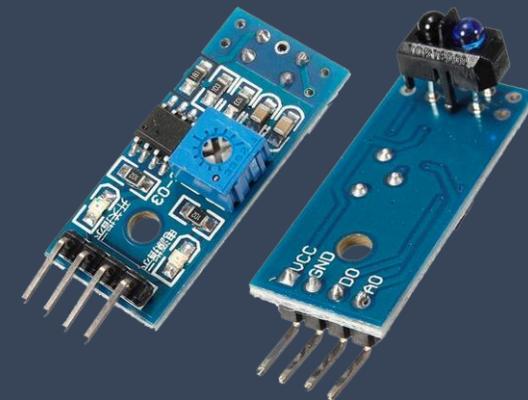
1

Diseño

T I N
K E R
C A D



L298N



Módulos TCRT5000

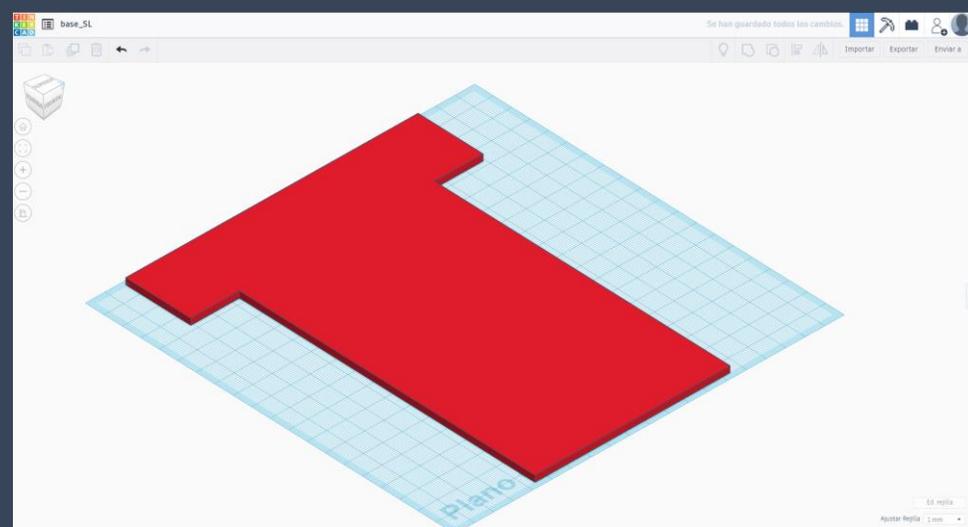
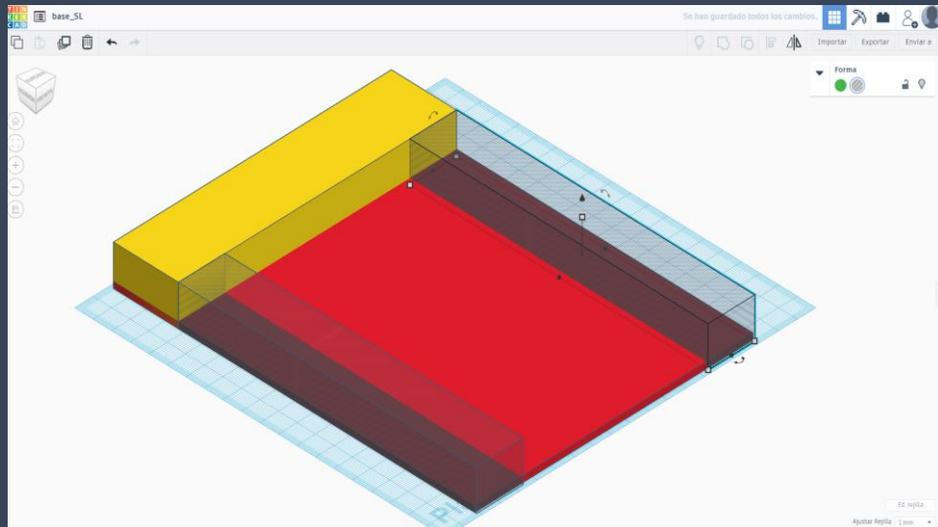
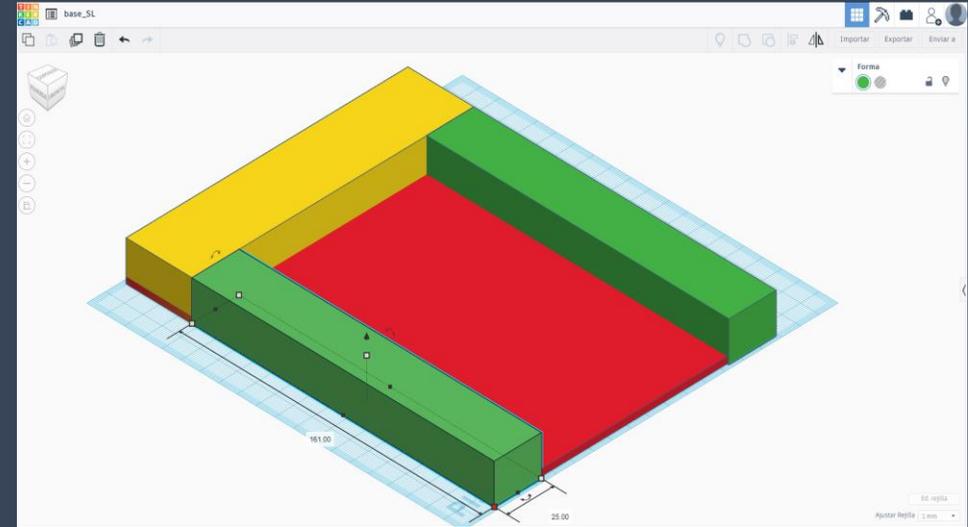
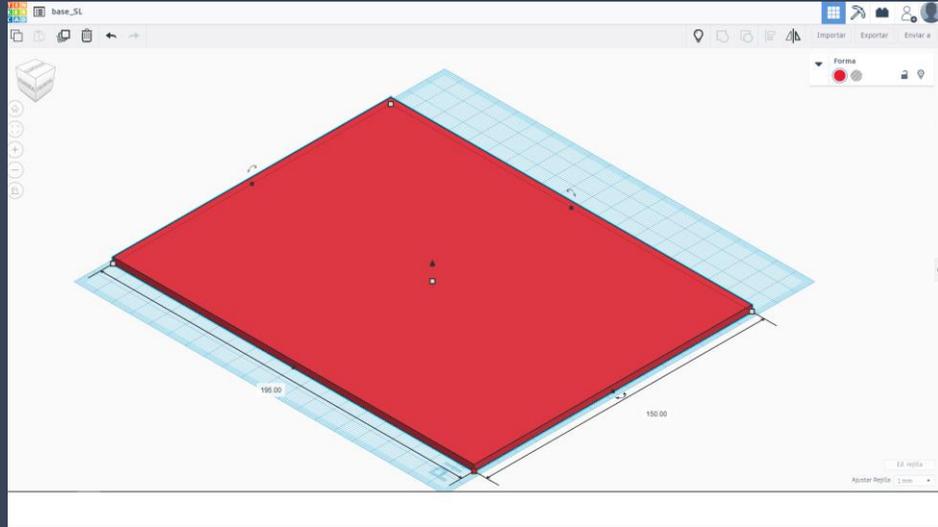
1

Diseño

T I N
K E R
C A D



PLATAFORMA - BASE

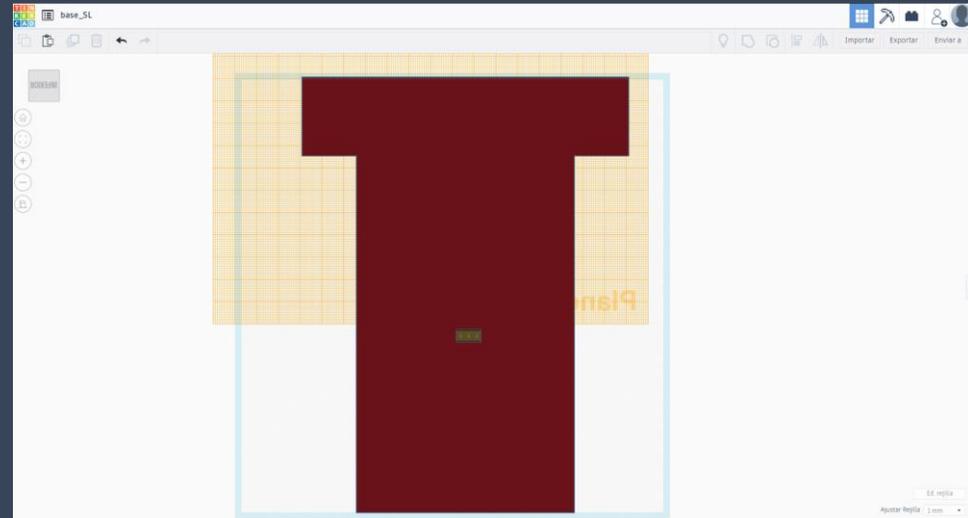
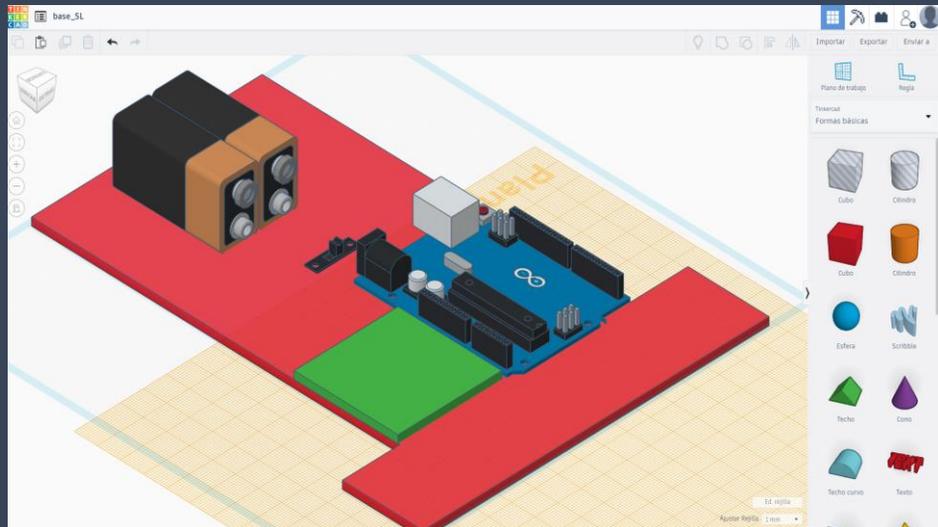
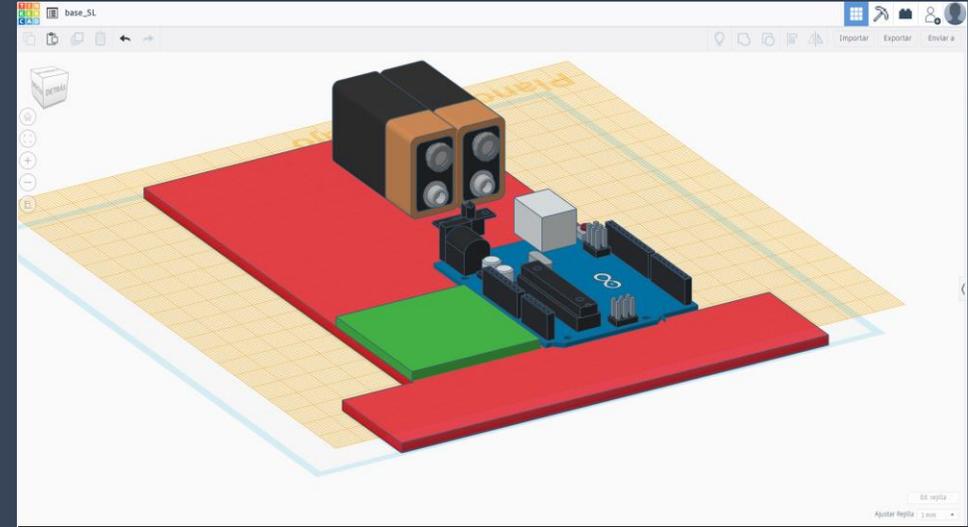
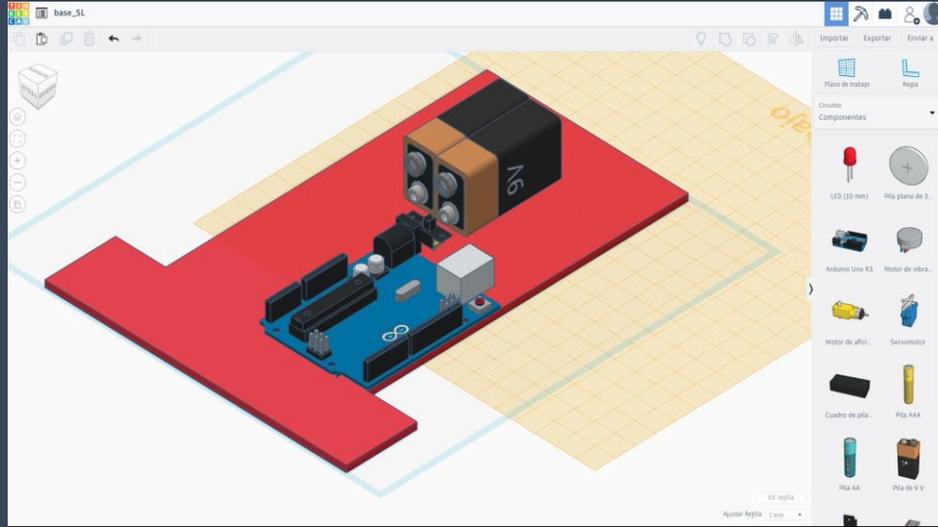


1

Diseño



CARA SUPERIOR



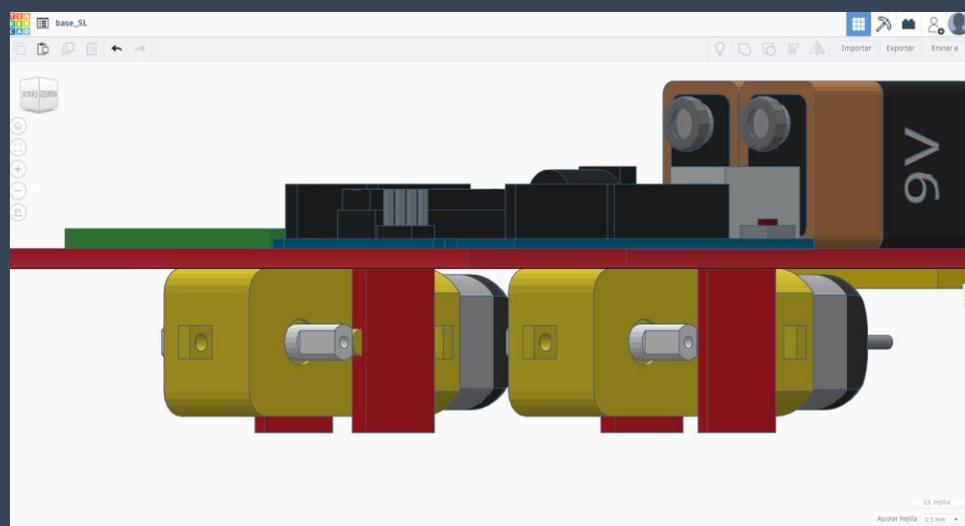
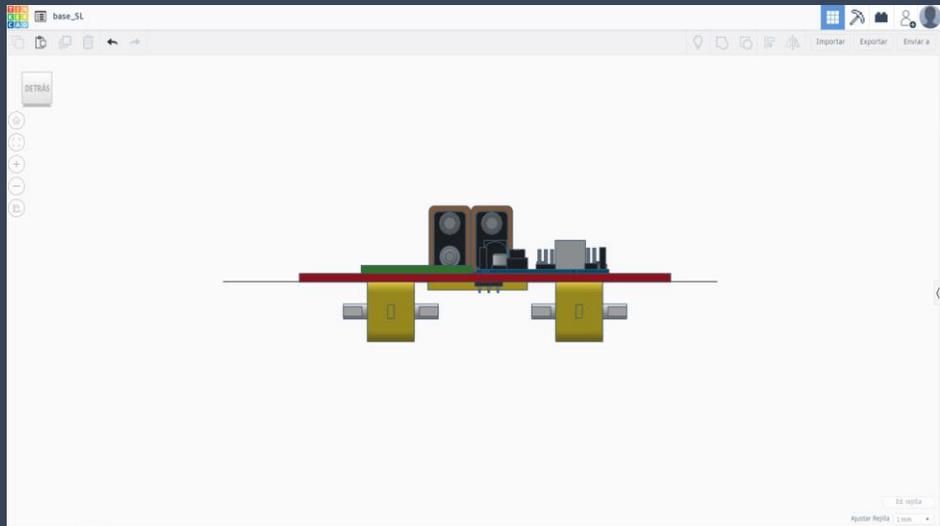
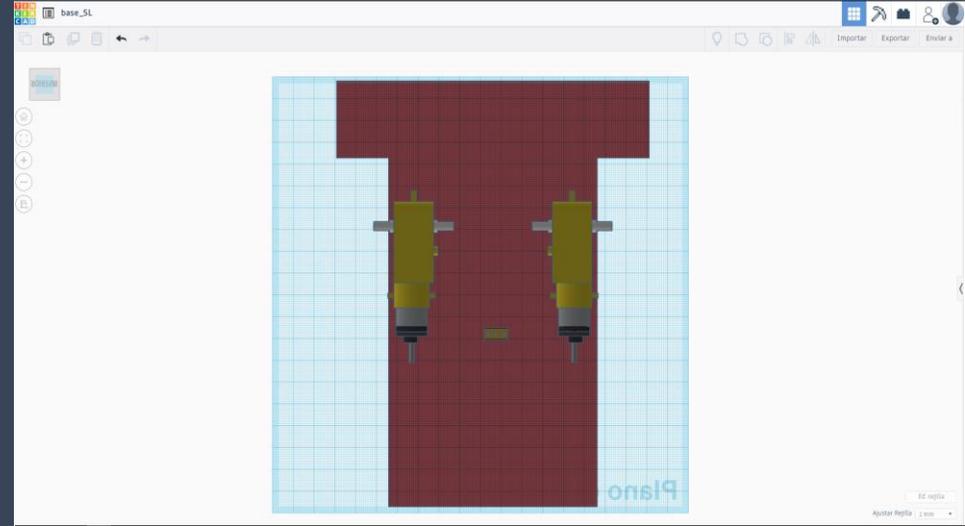
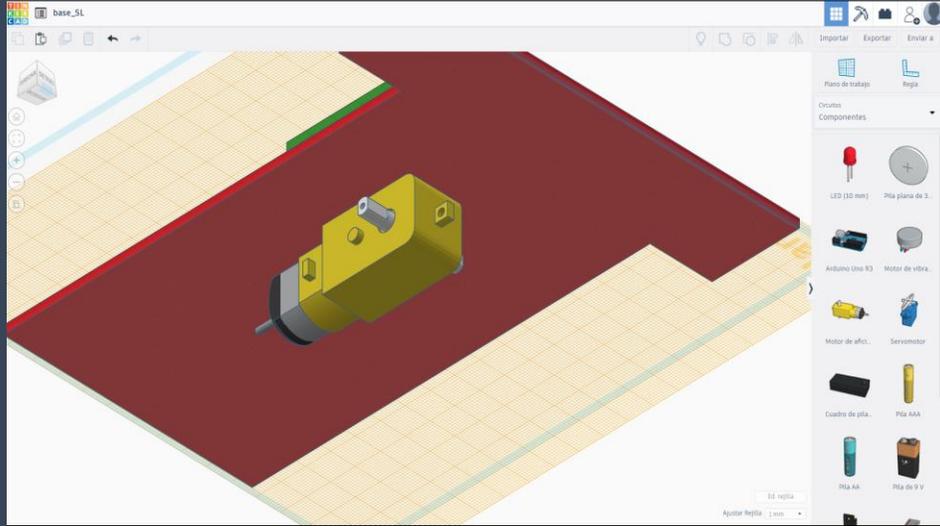
1

Diseño

T I N
K E R
C A D



CARA INFERIOR



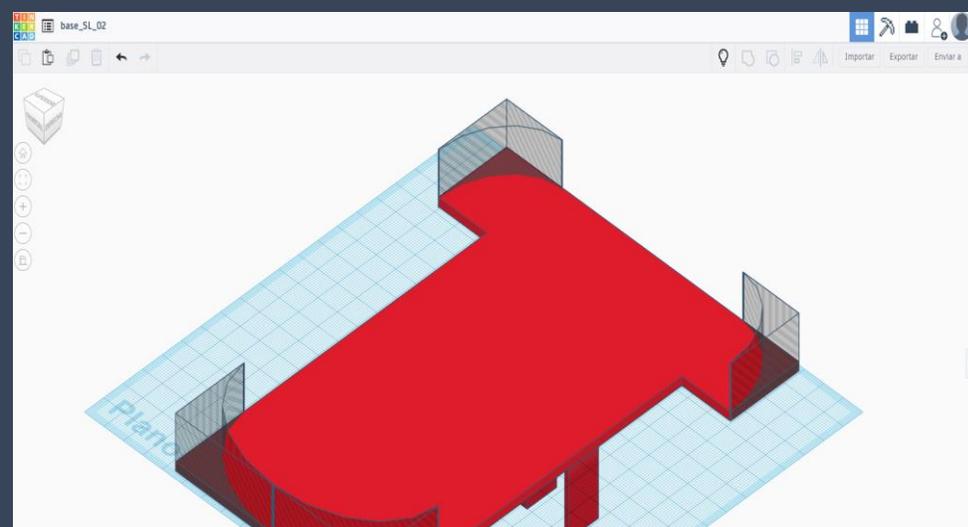
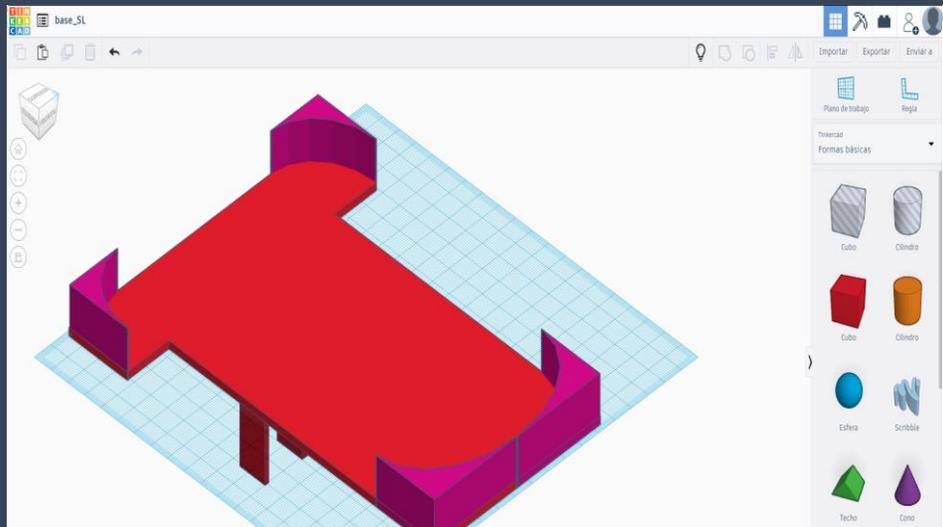
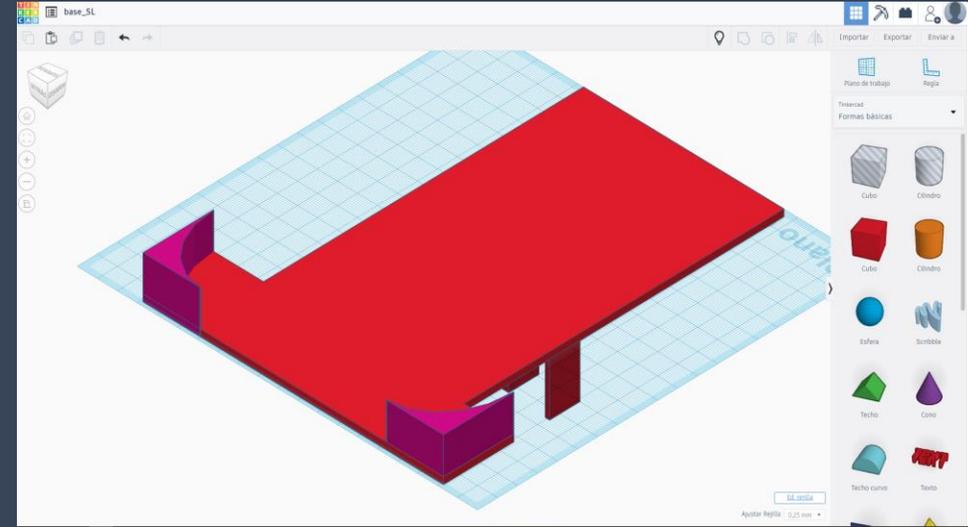
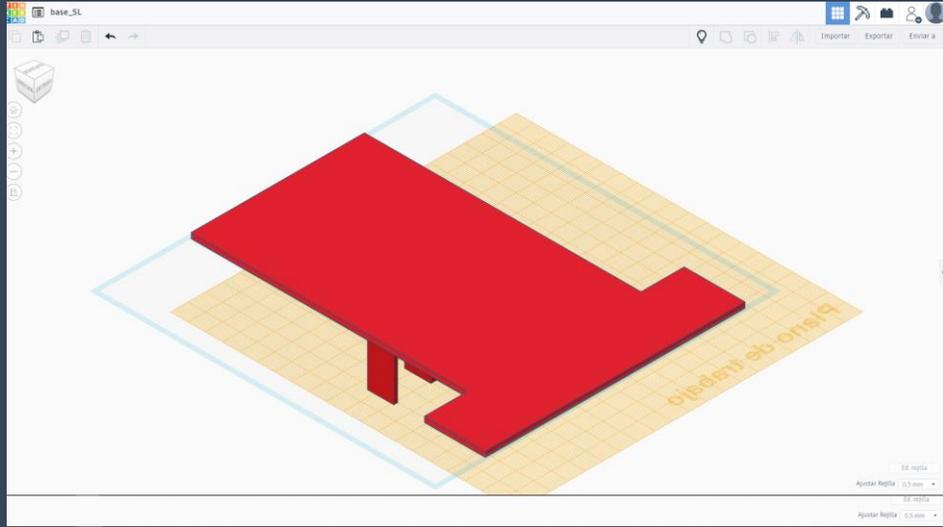
1

Diseño

T I N
K E R
C A D



DETALLES



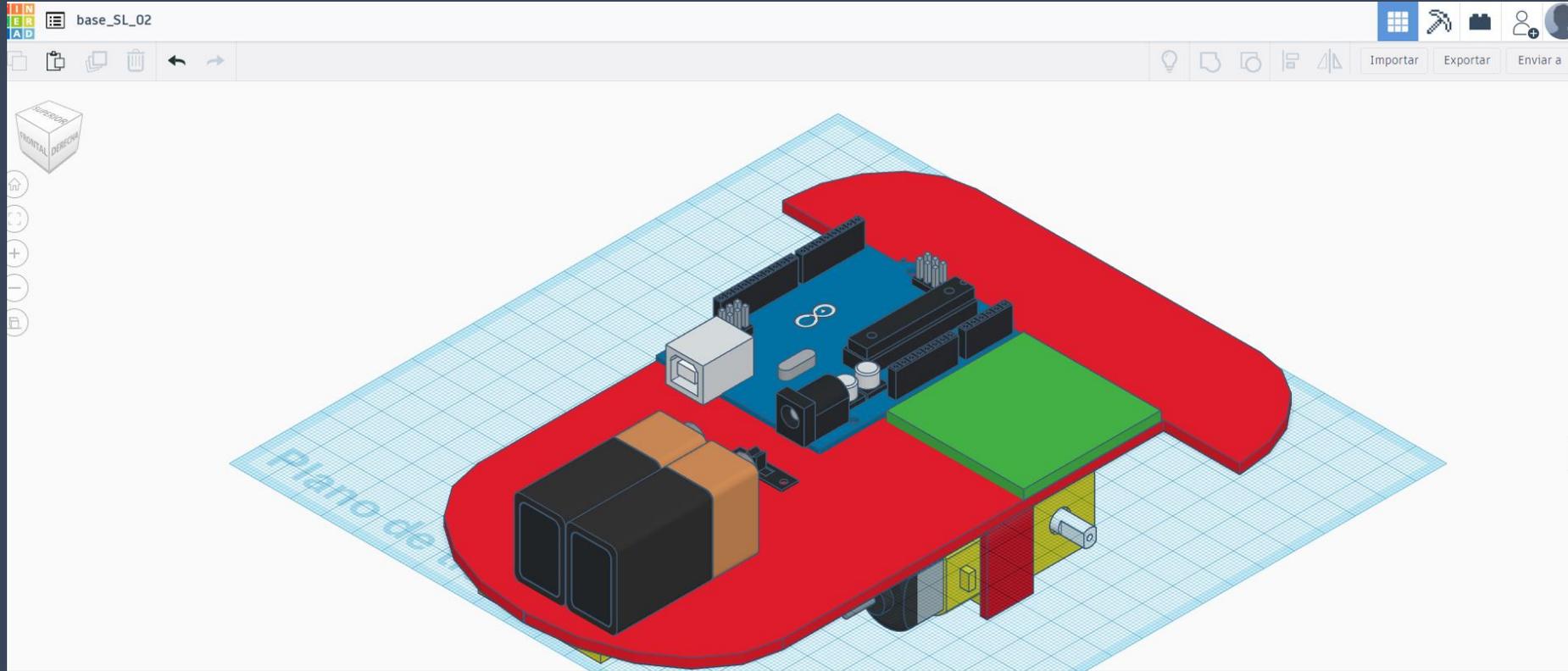
1

Diseño

T I N
K E R
C A D



DETALLES



1

Diseño

T I N
K E R
C A D



IMPRESIÓN 3D

