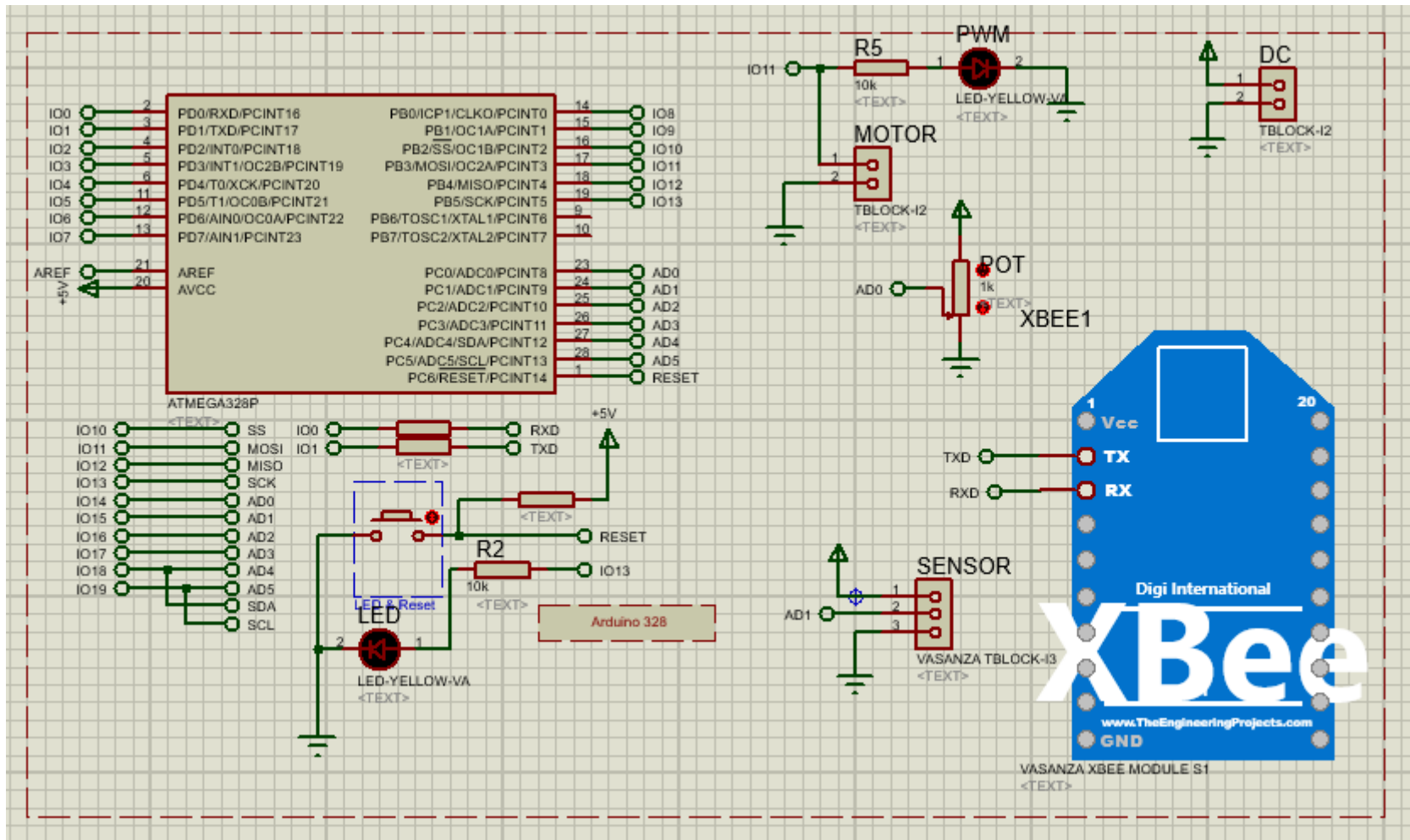


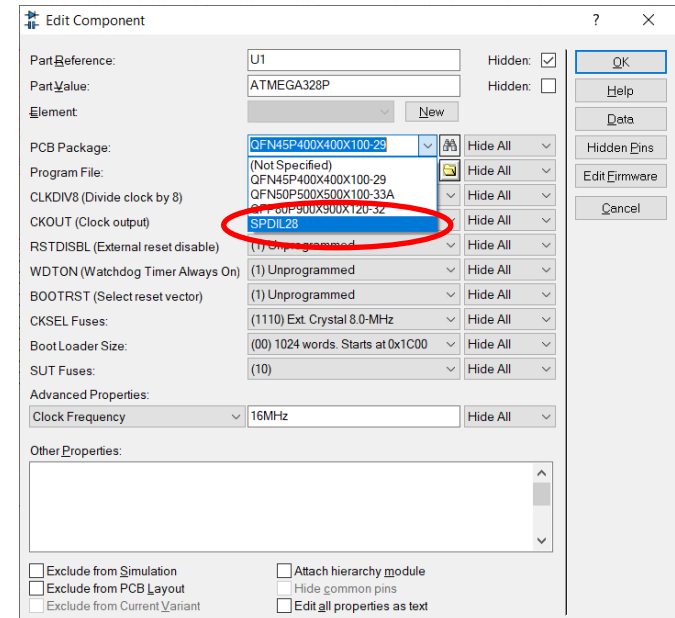
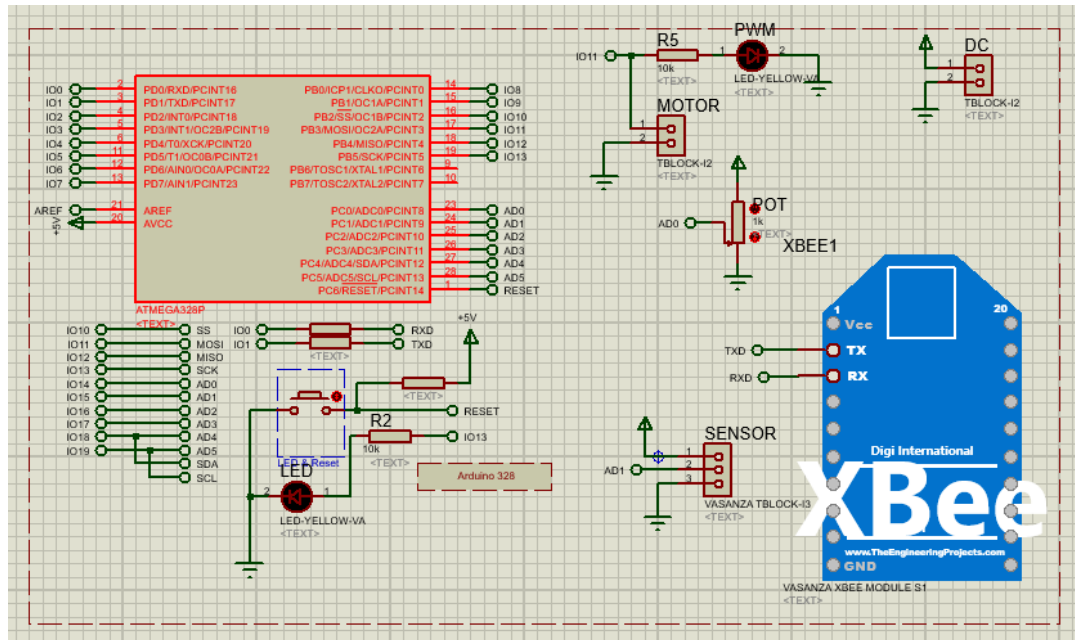
PROTEUS PCB DESIGN (Ejemplo 1)

Schematic – End Device



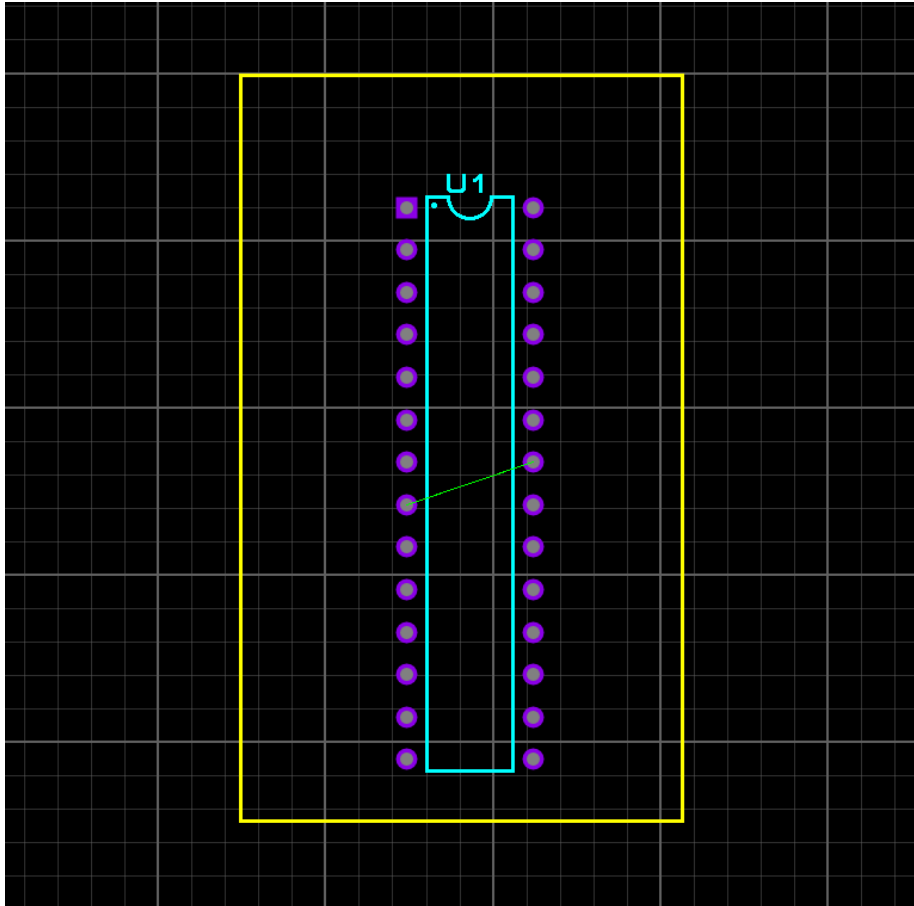
Proteus – Schematic

Encapsulado tipo DIP del AVR Atmega 328P

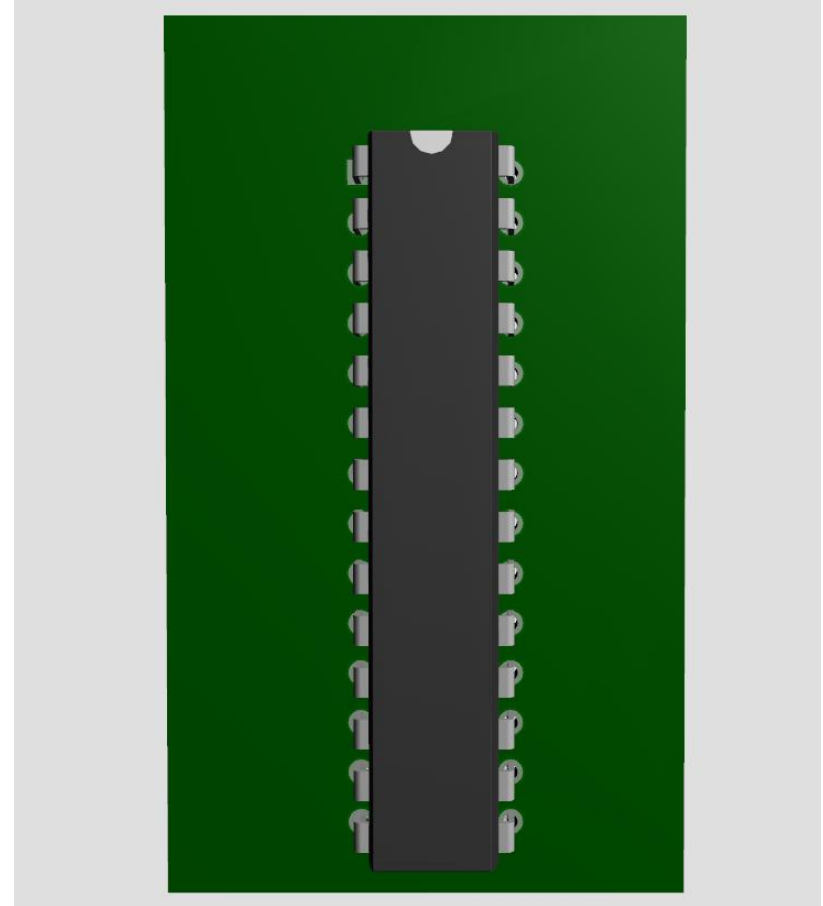


Proteus

PCB Layout

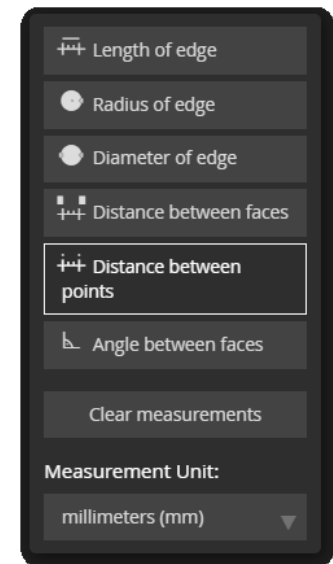
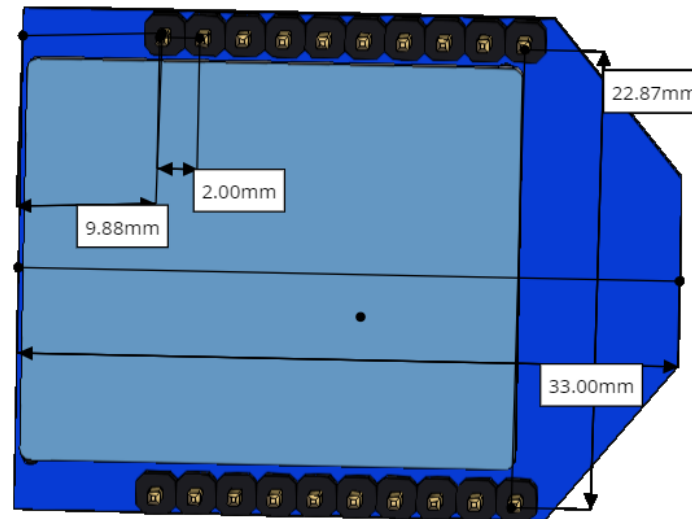
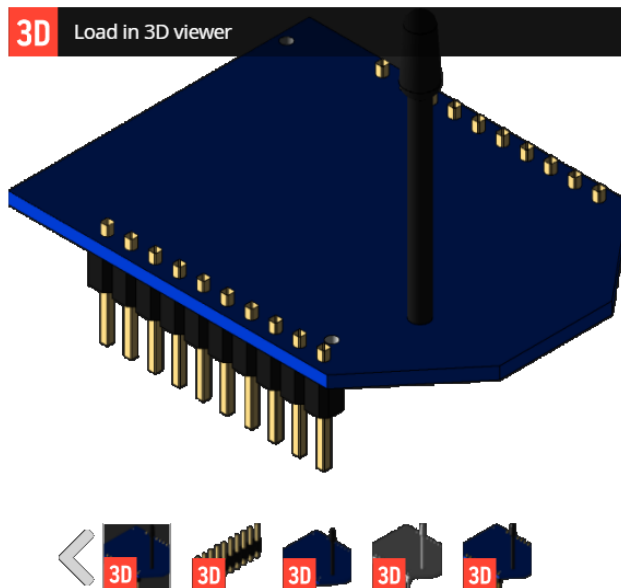


3D Visualizer



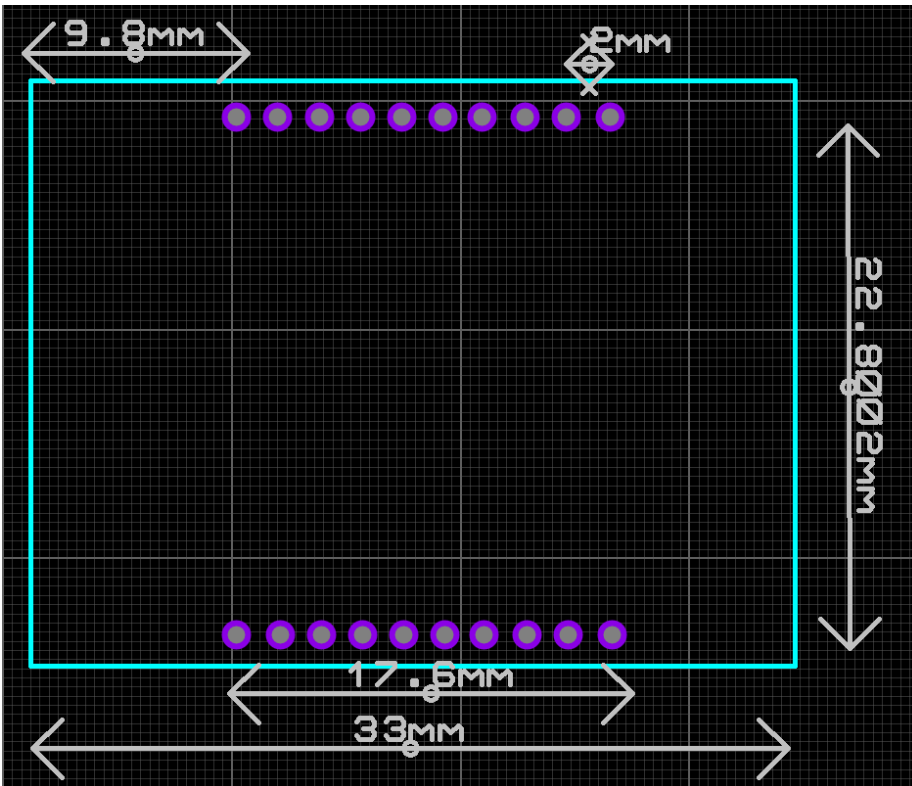
XBEE

<https://grabcad.com/library/xbee-pro-60mw-1>

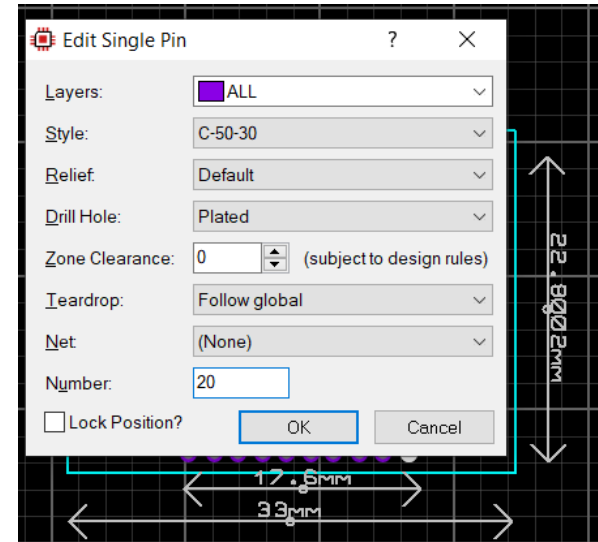


Proteus – PCB Layout

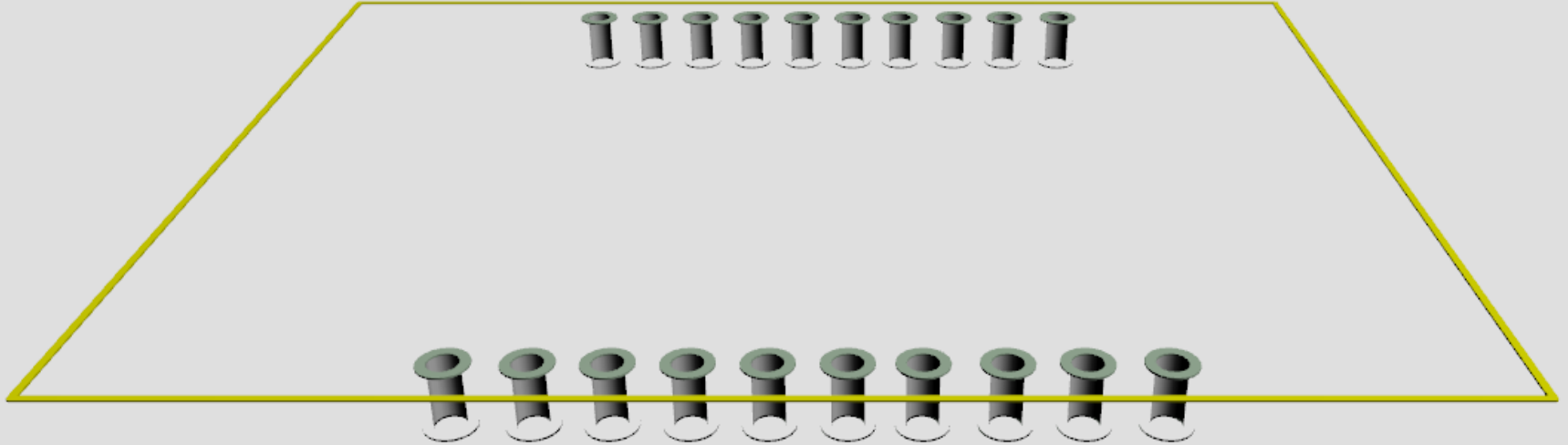
Footprint



Pin Number

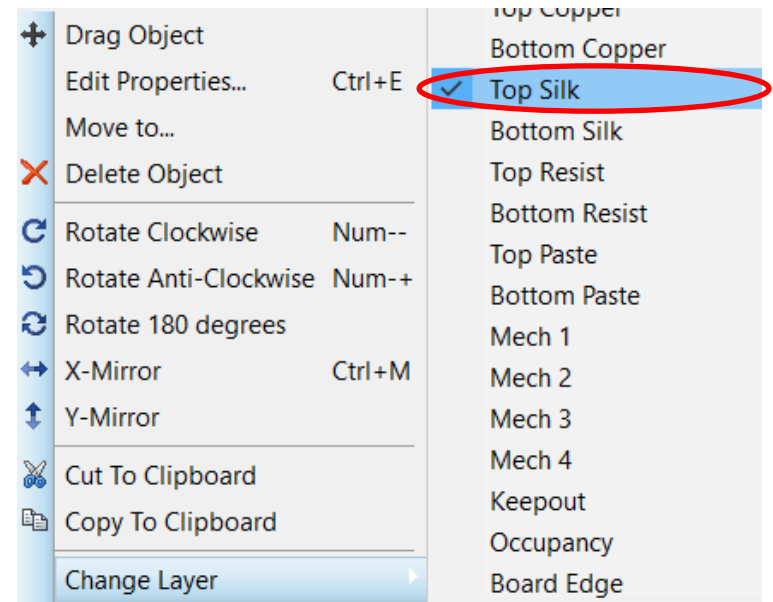
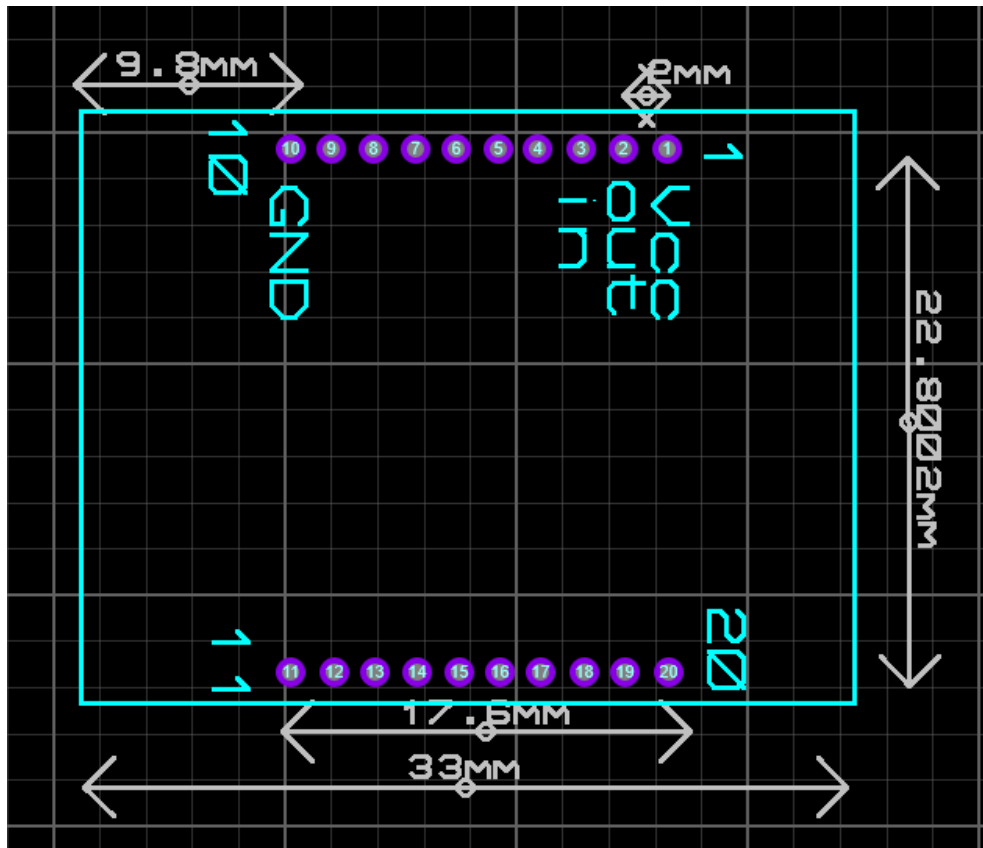


Proteus – 3D Visualizer

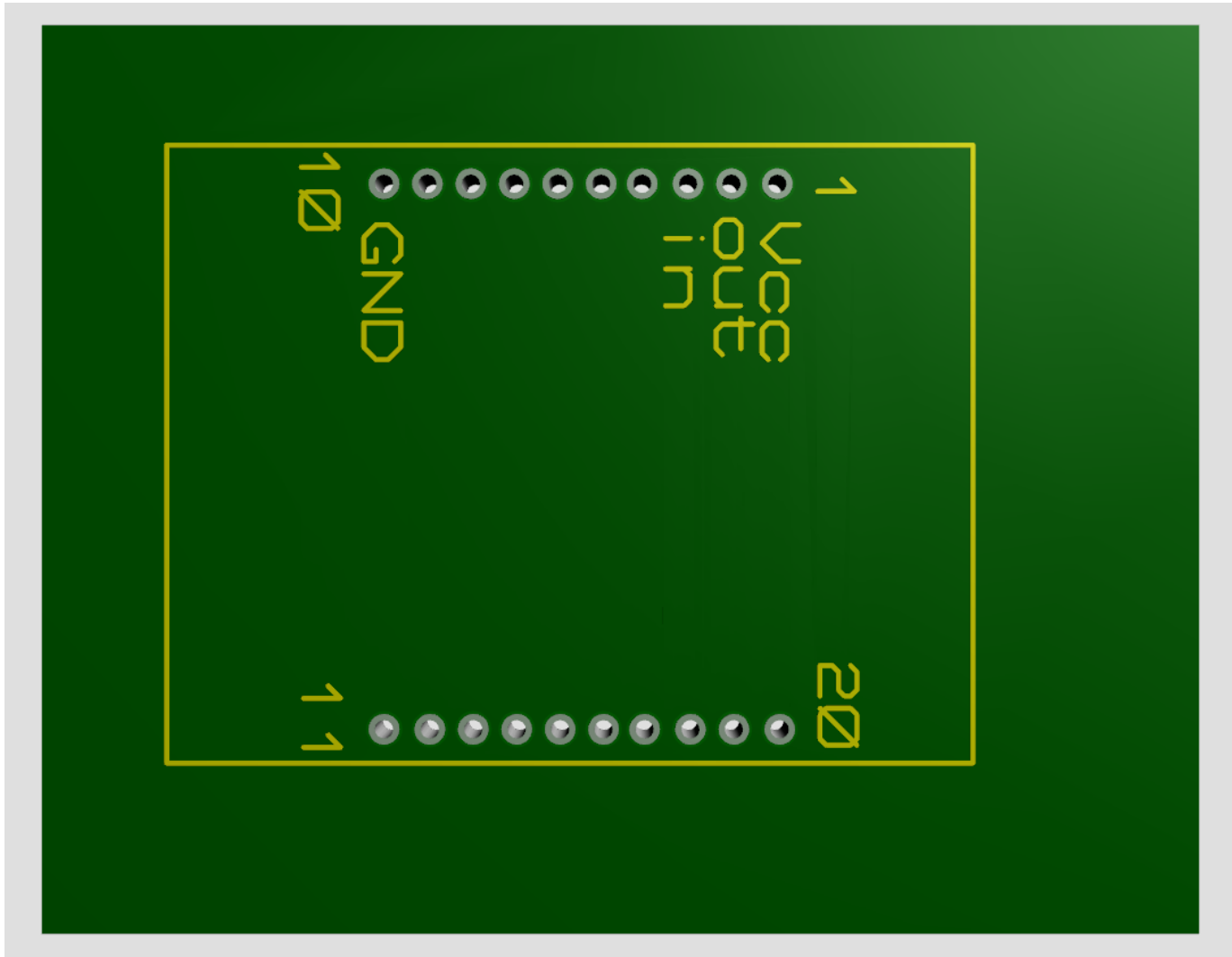


Proteus – PCB Layout

Footprint

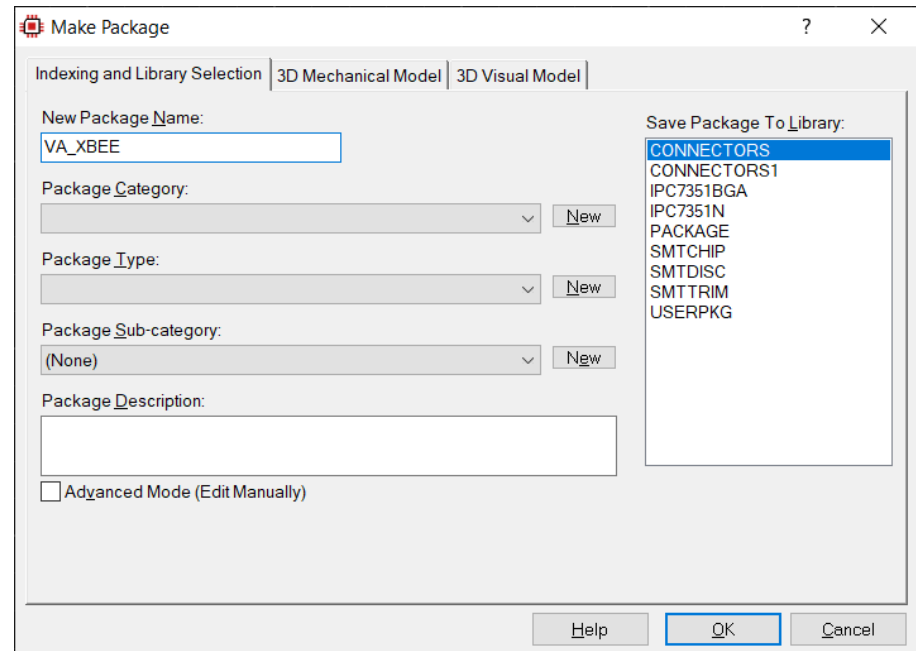
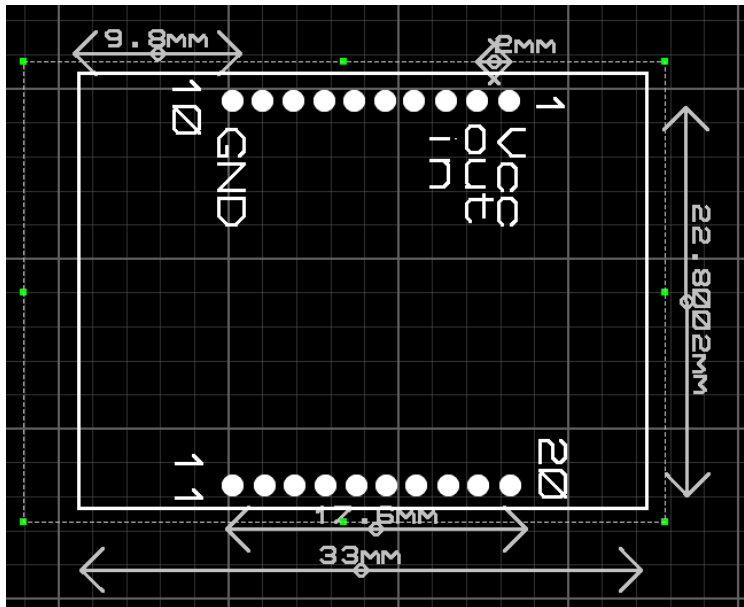
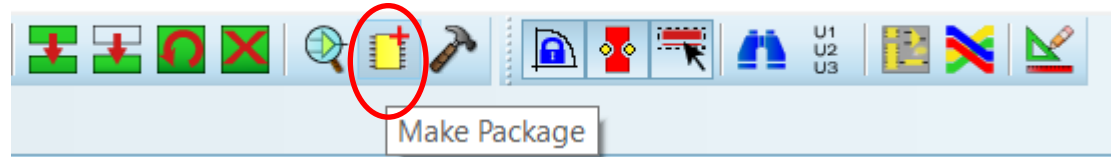


Proteus – 3D Visualizer



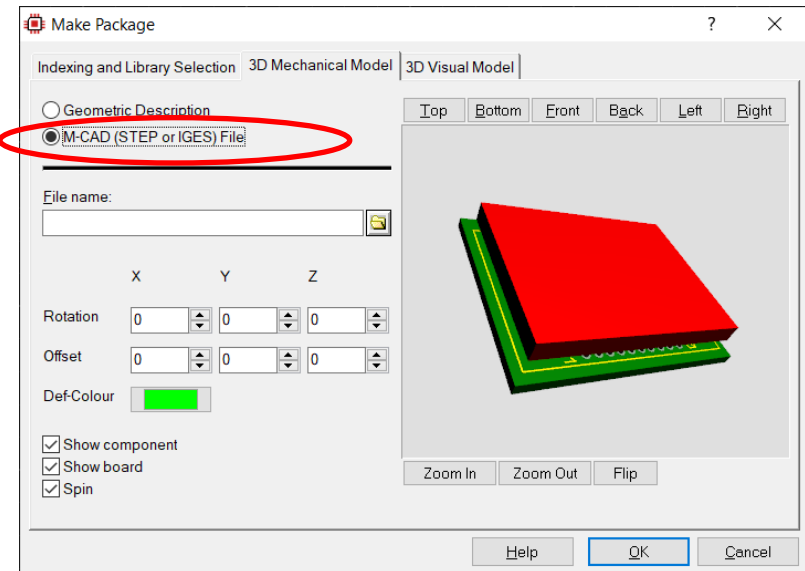
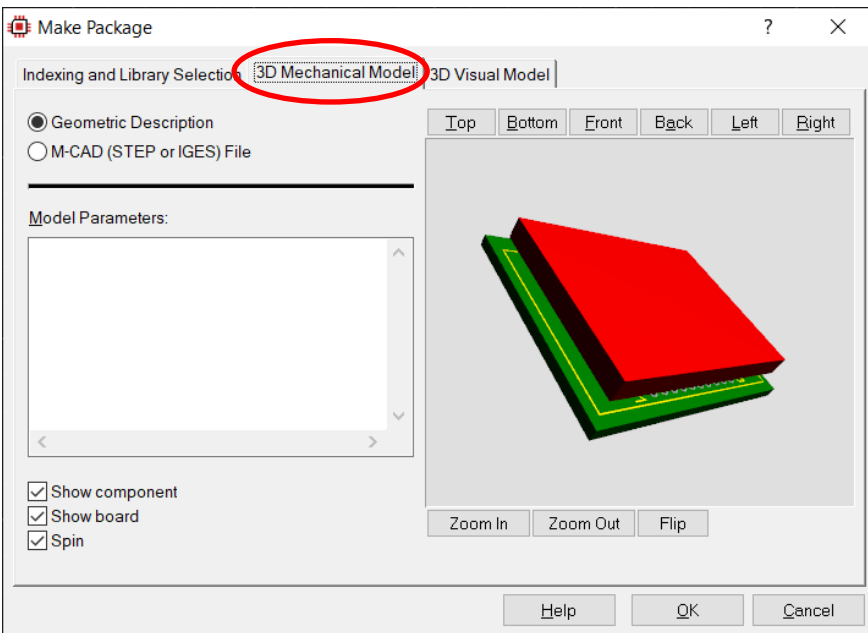
Proteus – PCB Layout

Make Package



Proteus – PCB Layout

Make Package

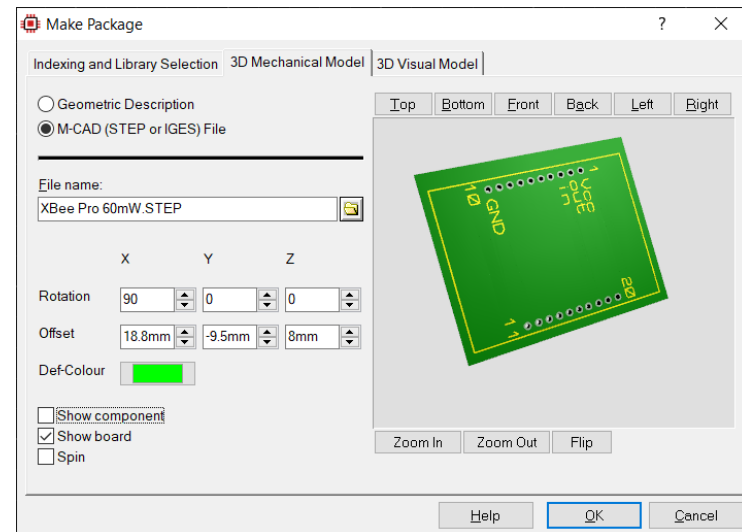
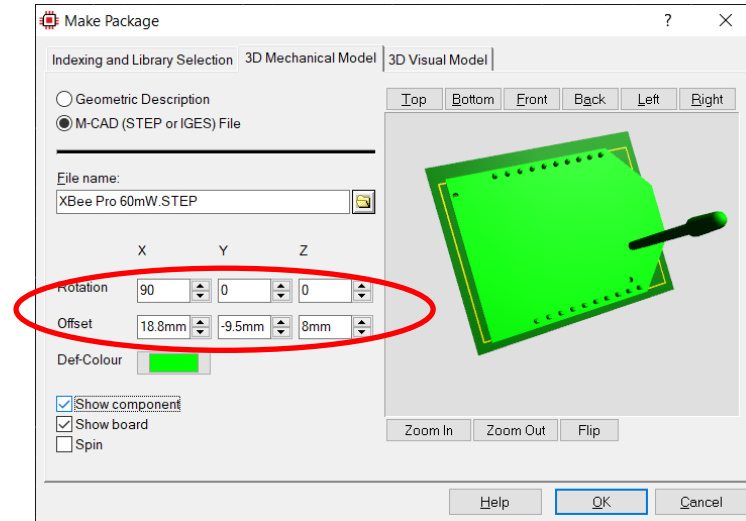
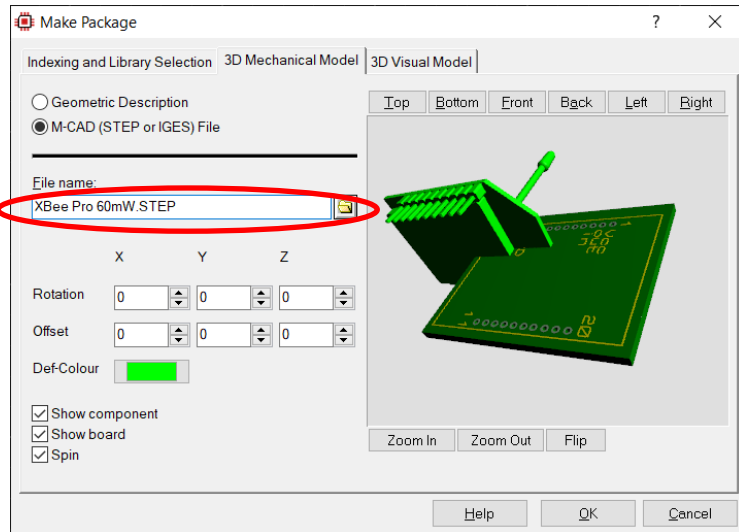


Program Files (x86) > Labcenter Electronics > Proteus 8 Professional > DATA > MCAD

Name	Date modified	Type	Size
XBee Pro 60mW.STEP	27/8/2020 11:36	STEP File	1.171 KB
3405 Adafruit HUZZAH32 ESP32 Feather....	27/8/2020 10:37	Text Document	2.724 KB
Montagem.STEP	27/8/2020 10:08	STEP File	946 KB
LED5,0mmVermelho.step	27/8/2020 9:36	STEP File	53 KB
Allegro-CA-CB-PFF-Package.STEP	18/10/2018 16:24	STEP File	171 KB
m20-7830342_asm.stp	1/2/2018 16:10	STP File	322 KB
Pin Header 1x6 TH Pitch 2.54mm.stp	1/2/2018 16:10	STP File	825 KB

Proteus – PCB Layout

Make Package



Proteus – PCB Layout

Make Package

Make Package

Indexing and Library Selection | 3D Mechanical Model | 3D Visual Model

New Package Name:
VA_XBEE

Package Category:
Connectors New

Package Type:
Through Hole New

Package Sub-category:
Arduino Connectors New

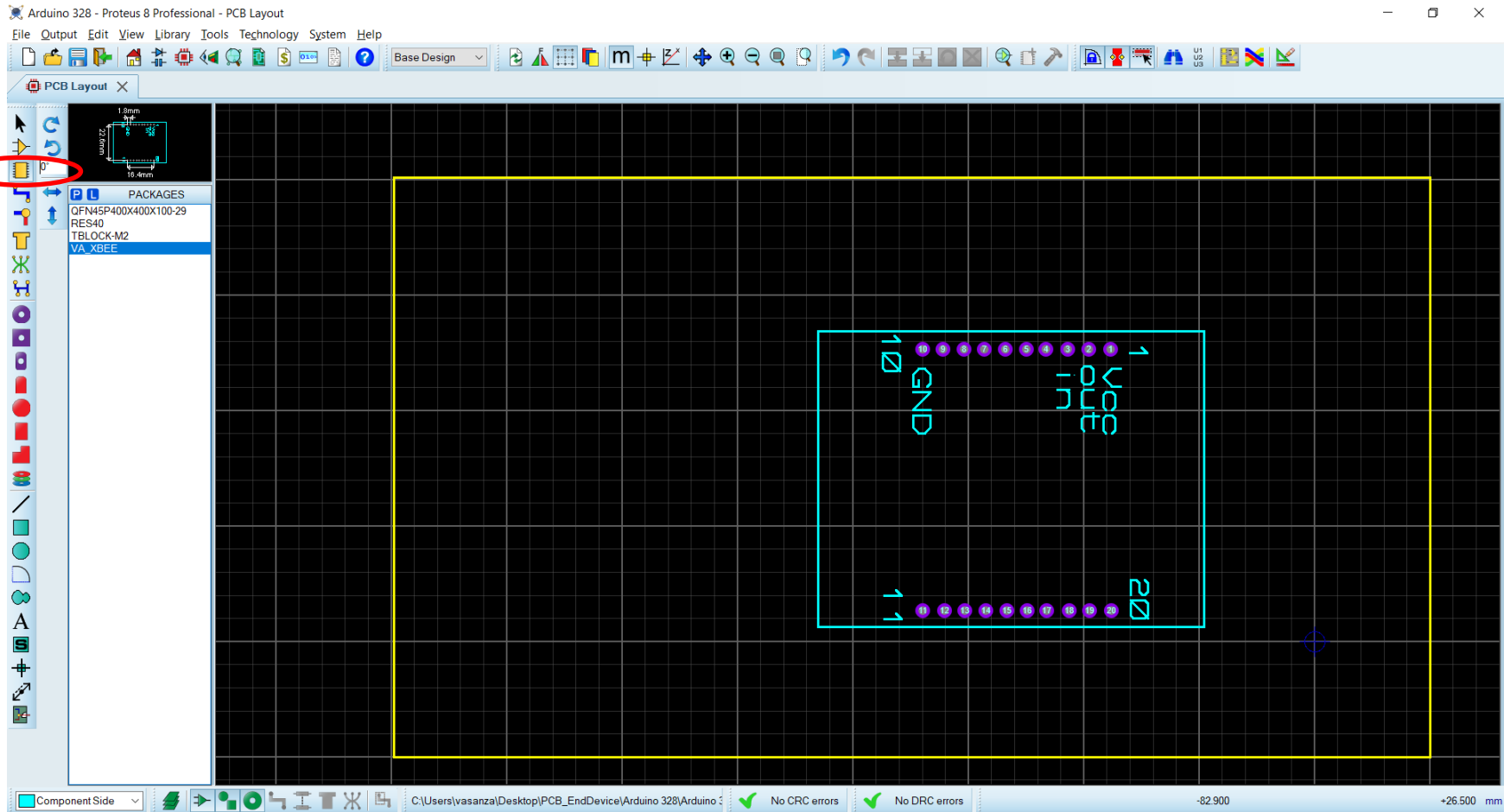
Package Description:
XBEE mw by vasanza

☐ Advanced Mode (Edit Manually)

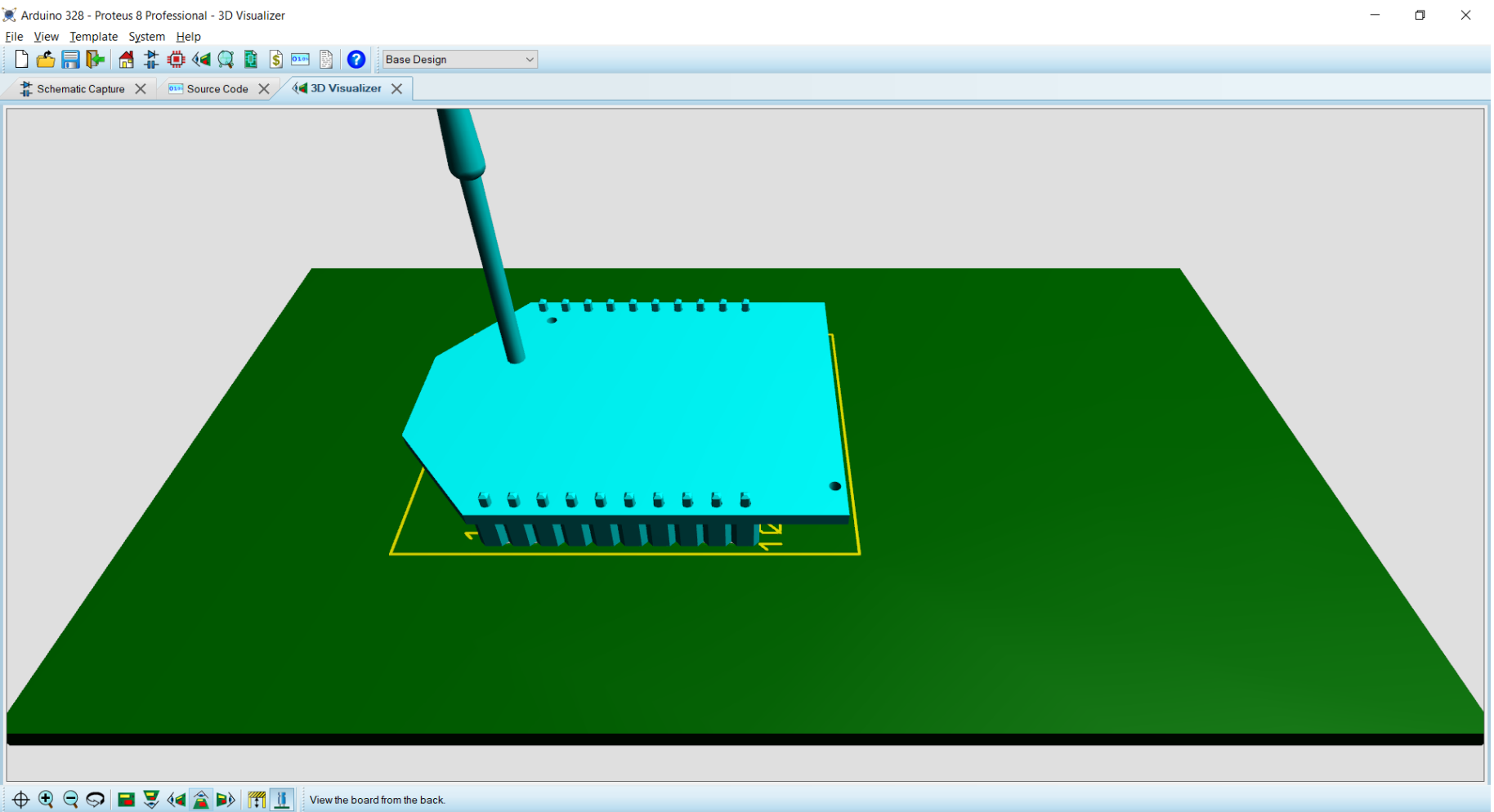
Save Package To Library:
CONNECTORS
CONNECTORS1
IPC7351BGA
IPC7351N
PACKAGE
SMTCHIP
SMTDISC
SMTTRIM
USERPKG

Help OK Cancel

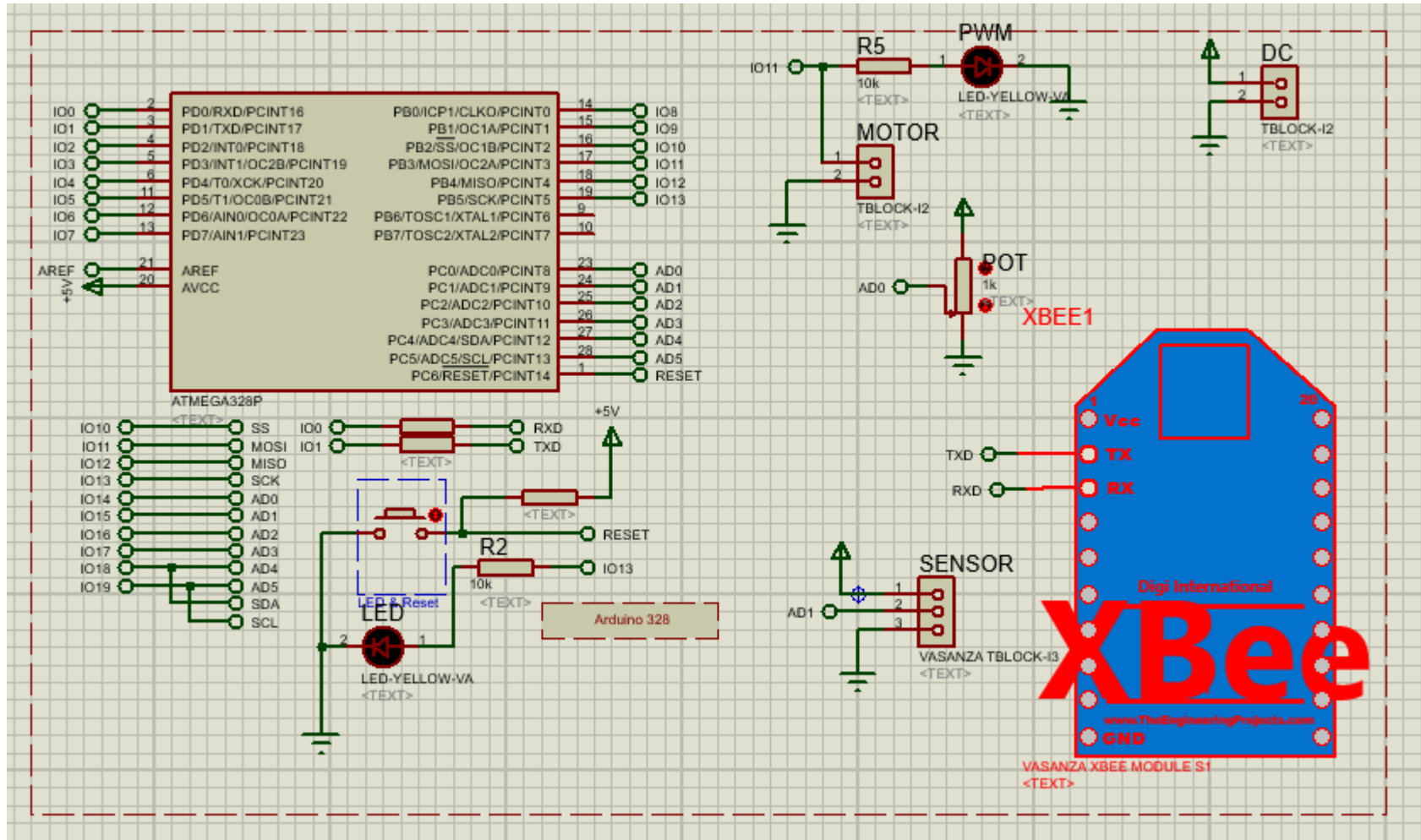
Proteus – PCB Layout



Proteus – 3D Visualizer

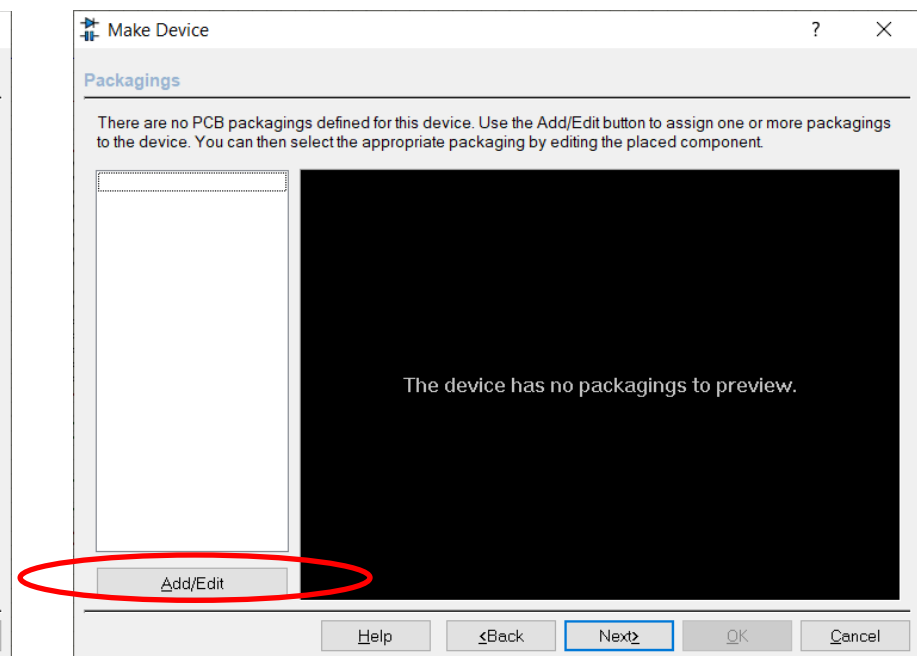
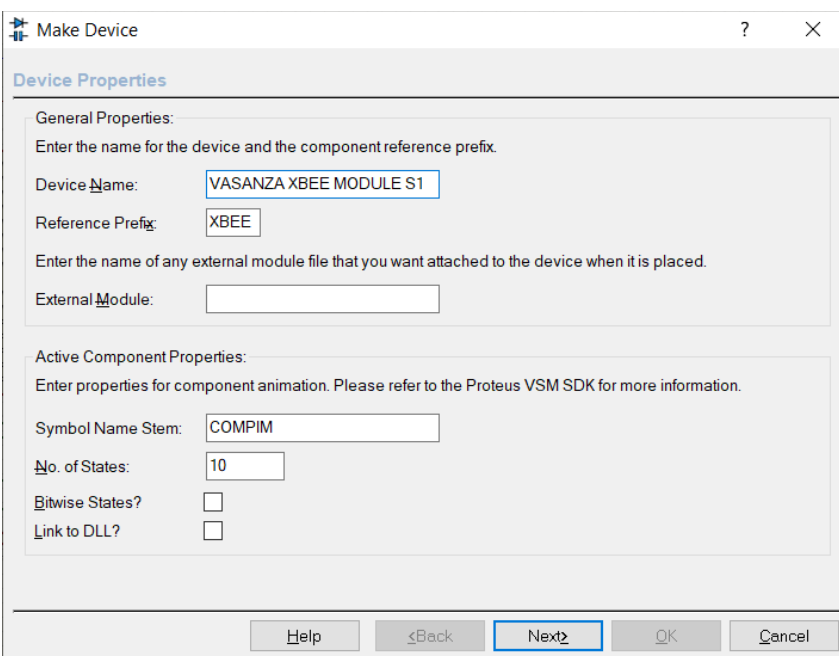


Proteus – Schematic



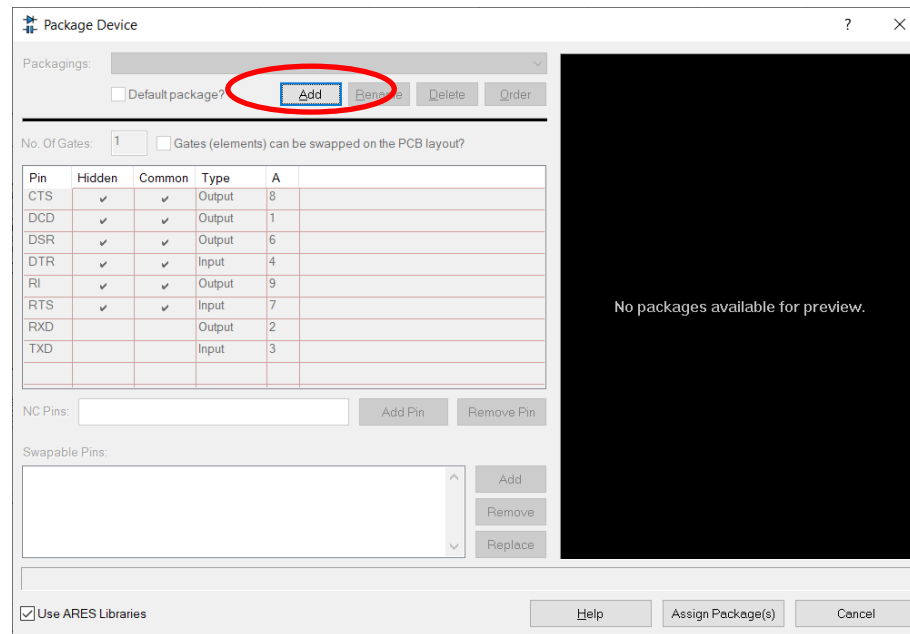
Proteus – Schematic

Make Device



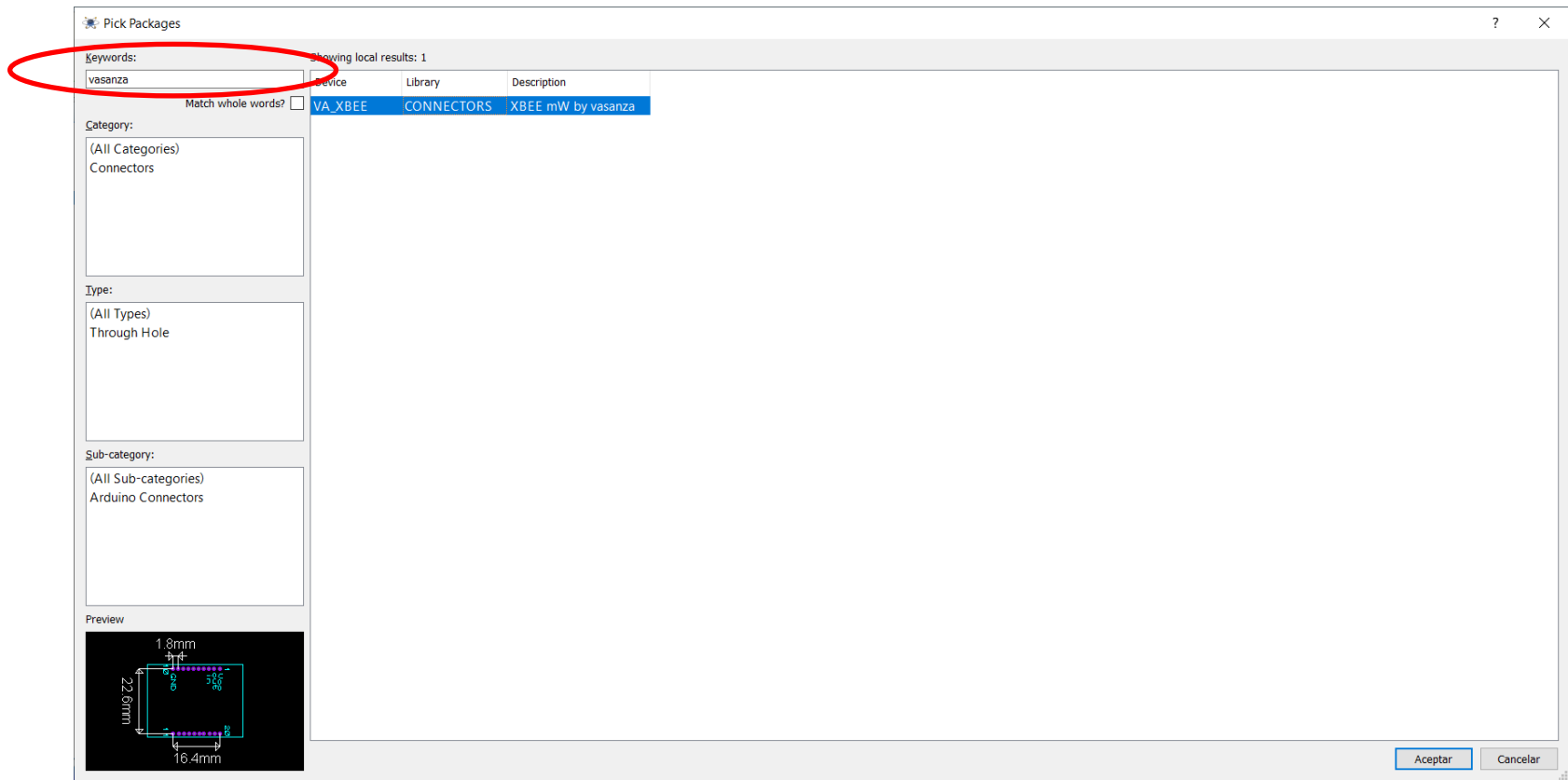
Proteus – Schematic

Make Device



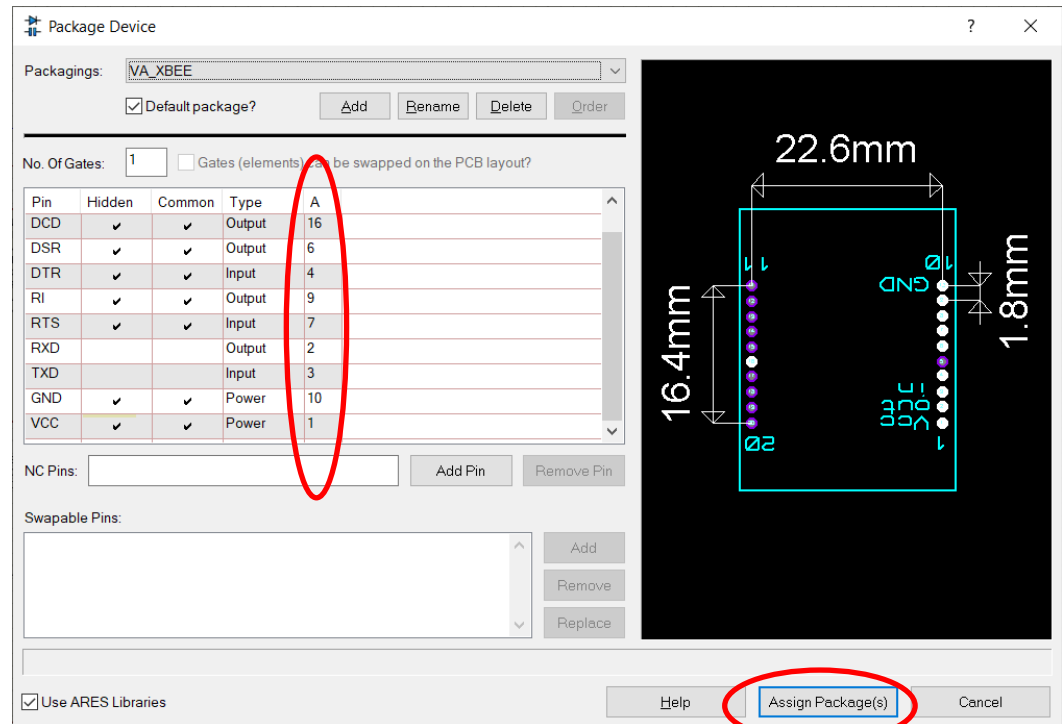
Proteus – Schematic

Make Device



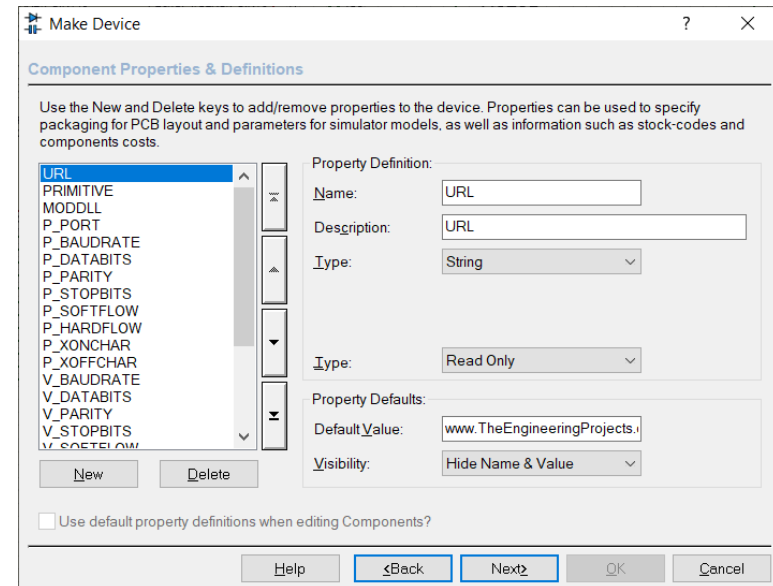
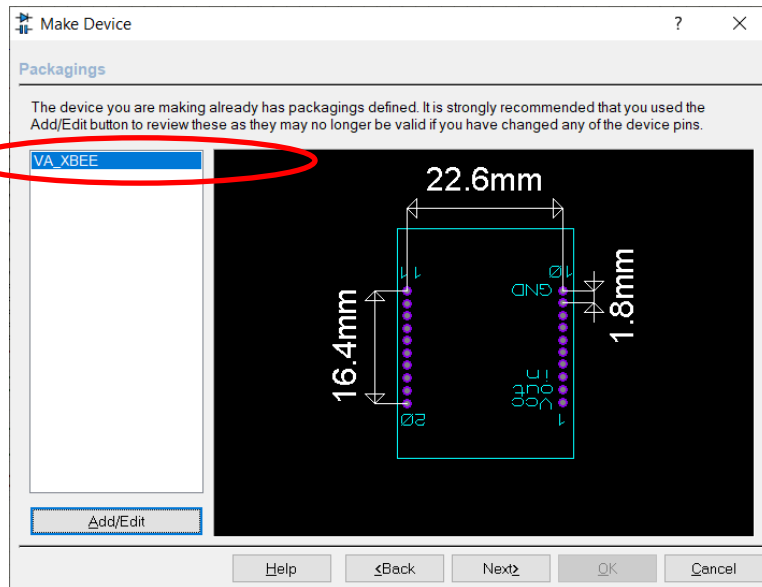
Proteus – Schematic

Make Device



Proteus – Schematic

Make Device



Proteus – Schematic

Make Device



Make Device ? X

Device Data Sheet & Help File

You can link your device to a data sheet (Acrobat.PDF file) and/or a help file. These can then be accessed via special buttons on the 'Edit Component' dialogue form.

Data Sheet:

Data Sheet Filename:

Download Server:

Download Path:

Download User Id:

Download Password:

Help Topic:

Help File:

Context Number:

Help <Back Next> OK Cancel

Make Device ? X

Indexing and Library Selection

Device Category:

Device Sub-category:

Device Manufacturer:

Stock/Order Code:

Device Description:

☐ Advanced Mode (Edit Fields Manually)

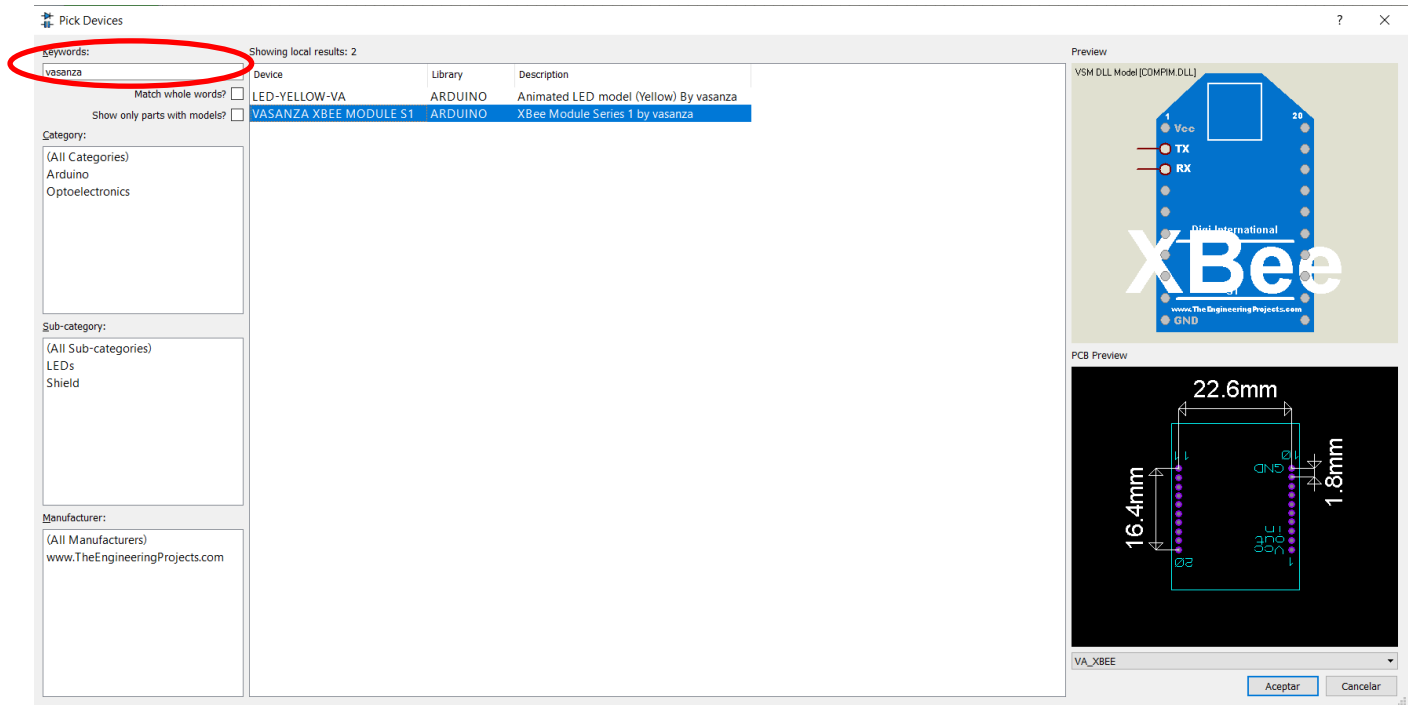
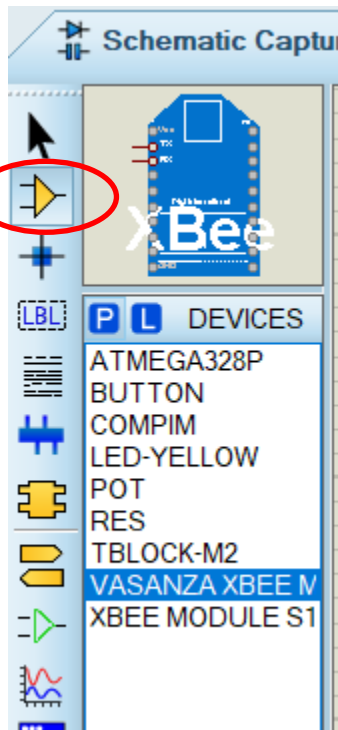
Device Notes:

Save Device To Library:

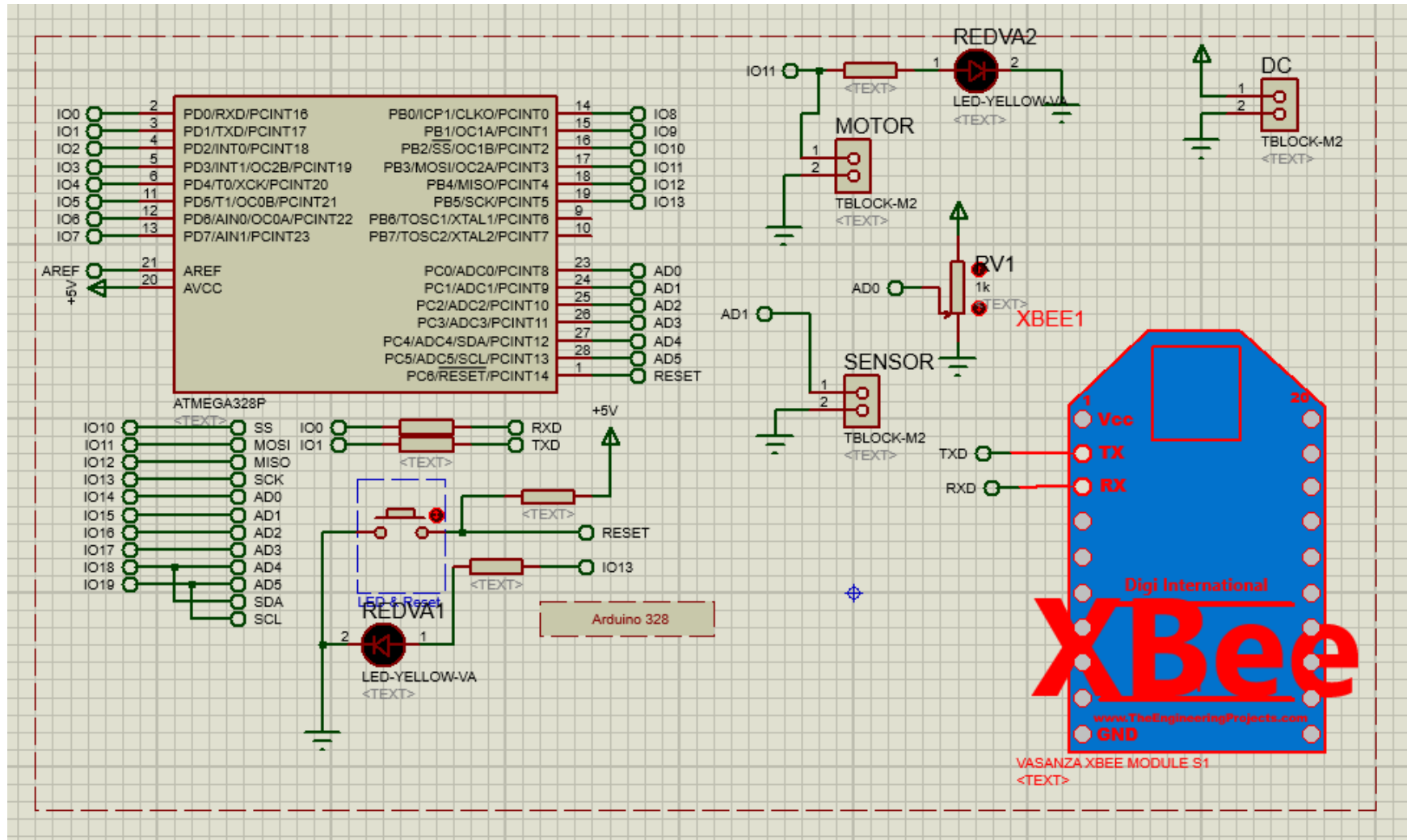
- 74ALS
- 74AS
- 74CBT
- 74F
- 74HC
- 74HCT
- 74LS
- 74LV
- 74S
- 74STD
- ACTIVE
- ANALOG
- ANALOGD
- APEX
- ARDUINO**
- ArduinoMiniTEP
- ArduinoNanoTEP
- ArduinoTEP
- ArduinoUnoTEP
- ARM7
- ASIMMDLS
- ASSMANN
- AVR

Help <Back Next> **OK** Cancel

Proteus – Schematic

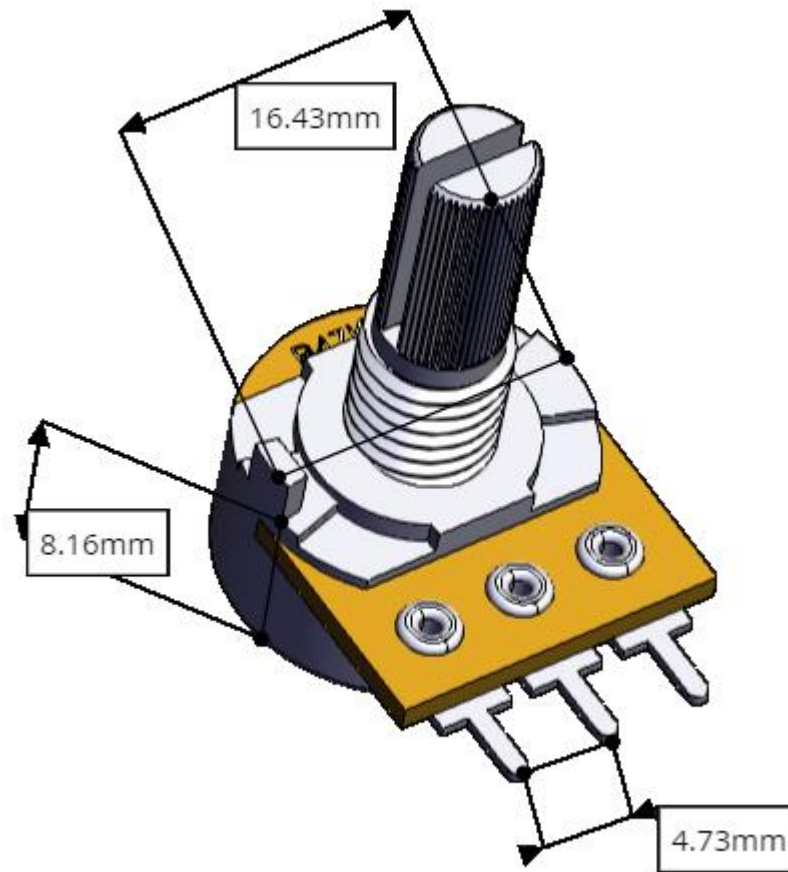


Proteus – Schematic



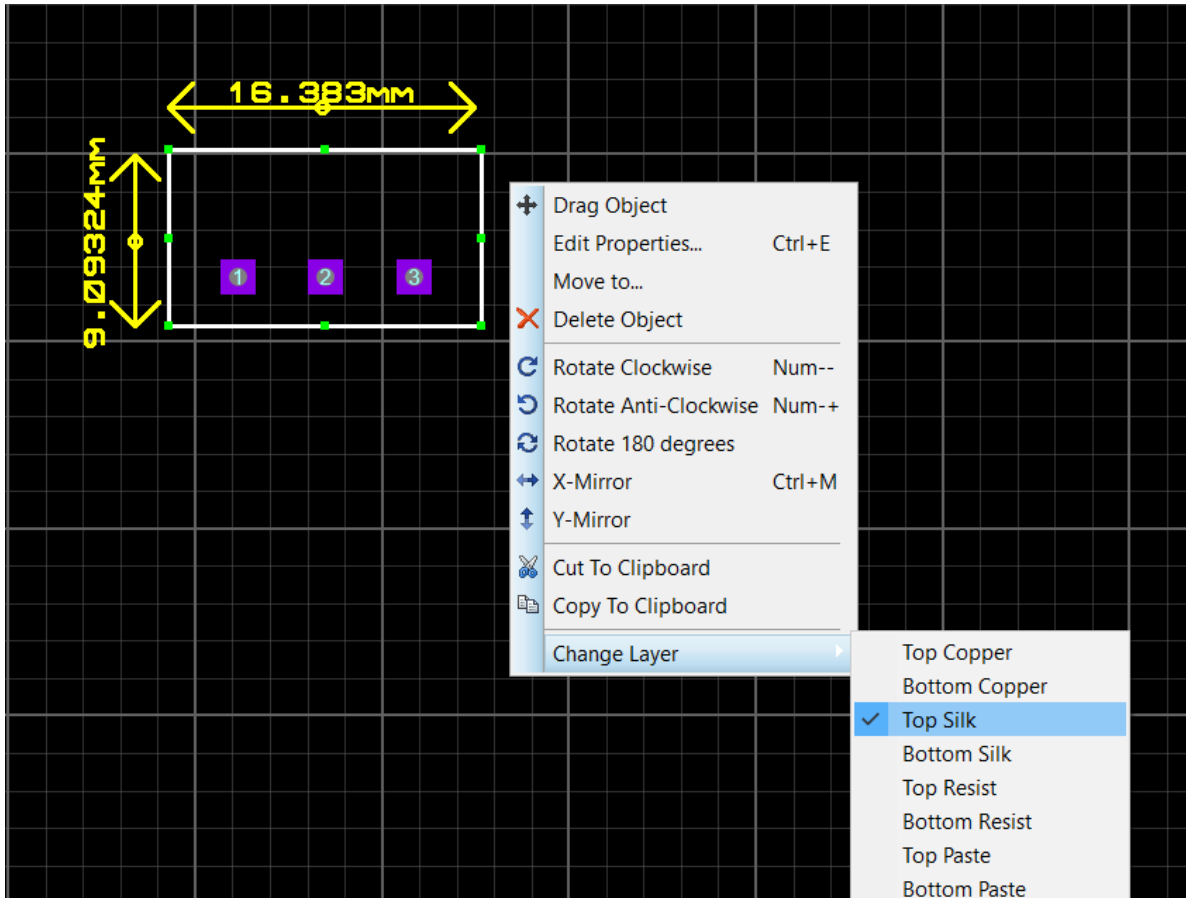
Potentiometer

<https://grabcad.com/library/47k-potentiometer-1>



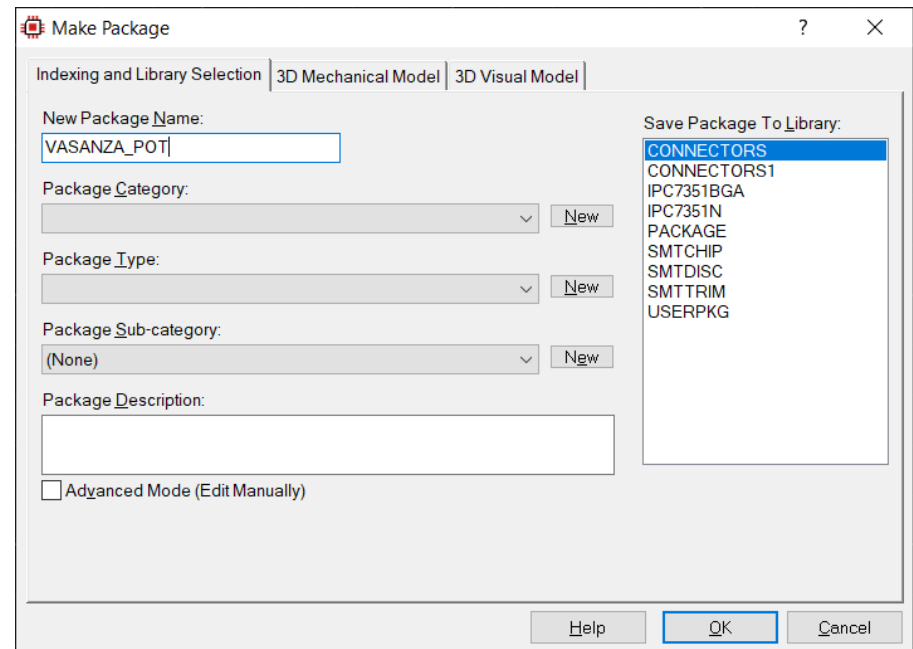
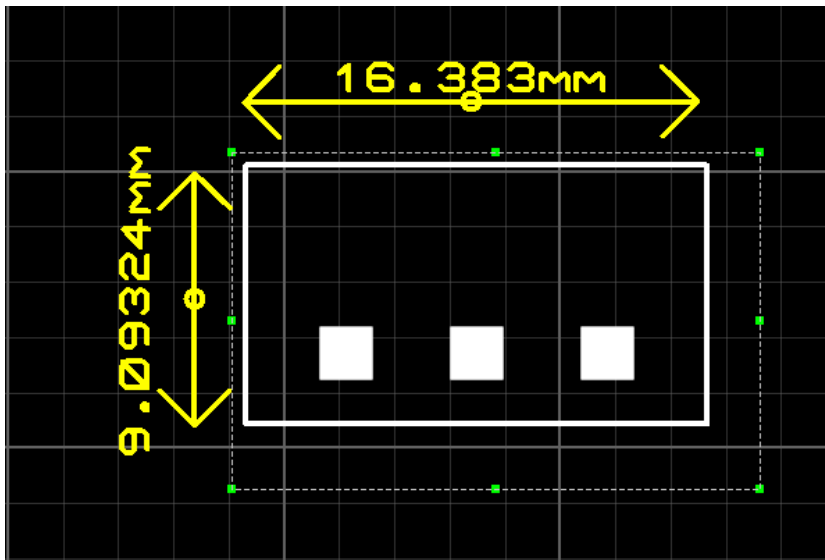
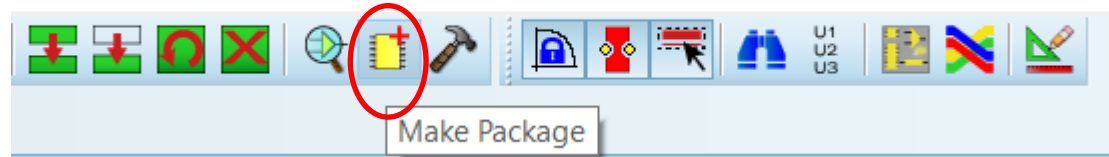
Proteus – PCB Layout

Footprint



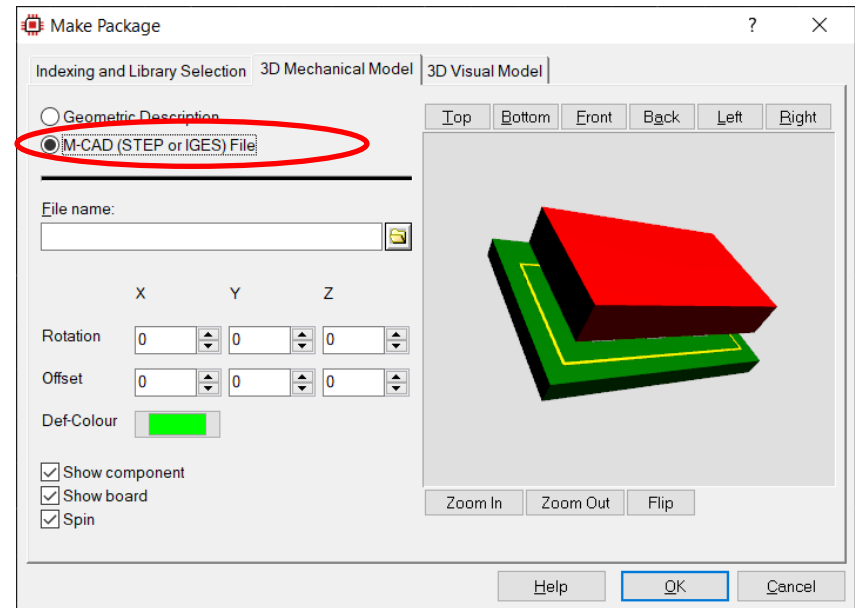
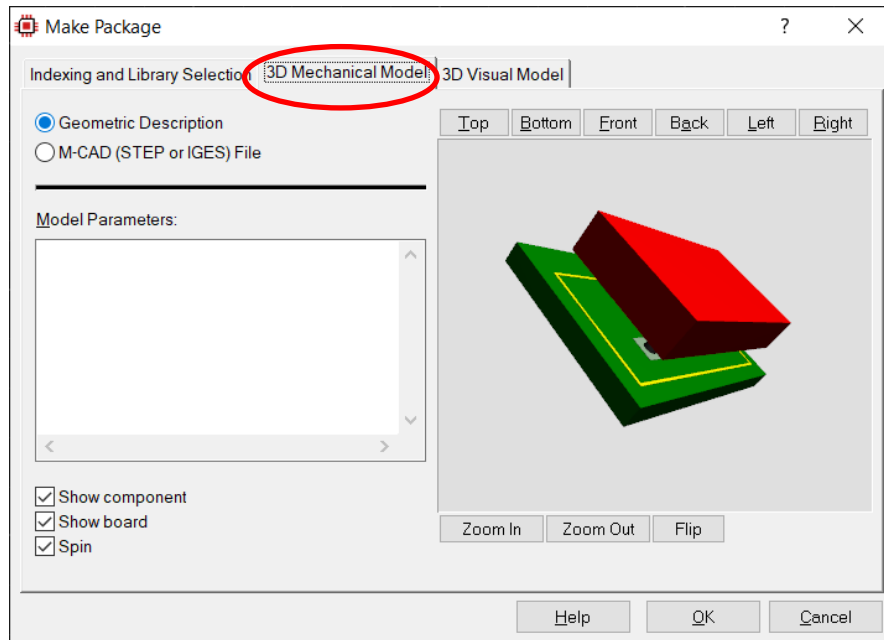
Proteus – PCB Layout

Make Package



Proteus – PCB Layout

Make Package

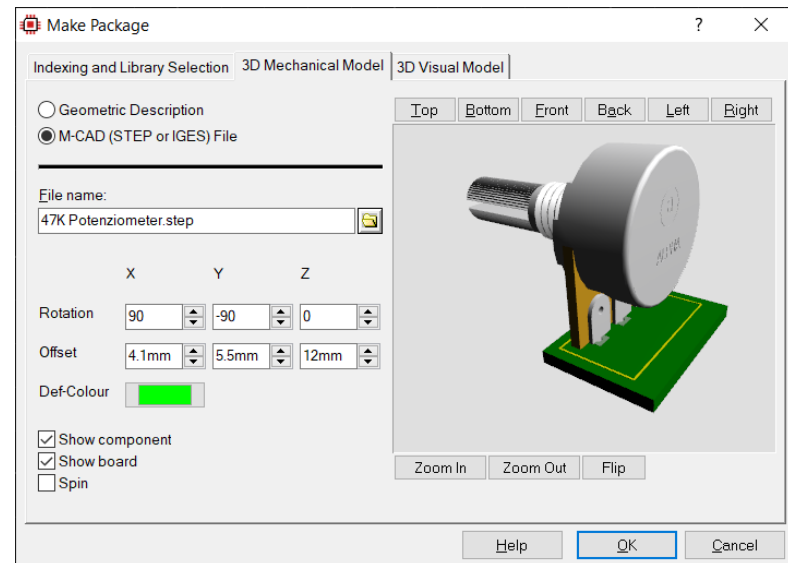
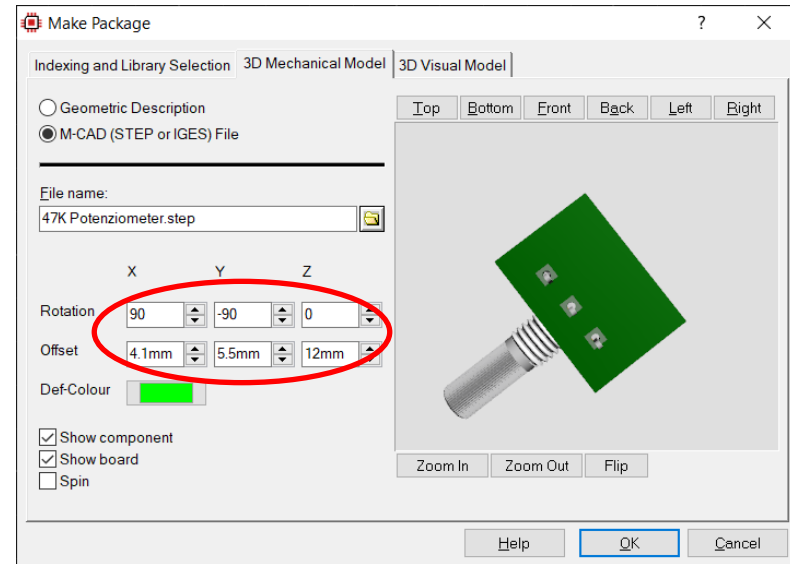
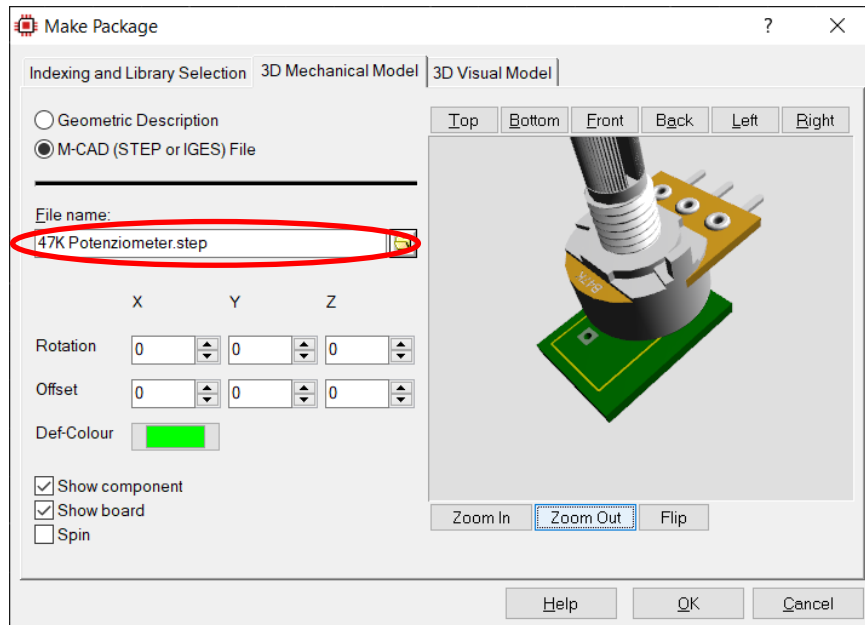


File Explorer view showing the directory: This PC > Windows (C:) > Program Files (x86) > Labcenter Electronics > Proteus 8 Professional > DATA > MCAD

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bornera de 3 terminales v2.0.STEP	27/8/2020 14:19	STEP File	312 KB

Proteus – PCB Layout

Make Package



Proteus – PCB Layout

Make Package

Make Package

Indexing and Library Selection | 3D Mechanical Model | 3D Visual Model

New Package Name:
VASANZA_POT

Package Category:
Connectors New

Package Type:
Through Hole New

Package Sub-category:
Arduino Connectors New

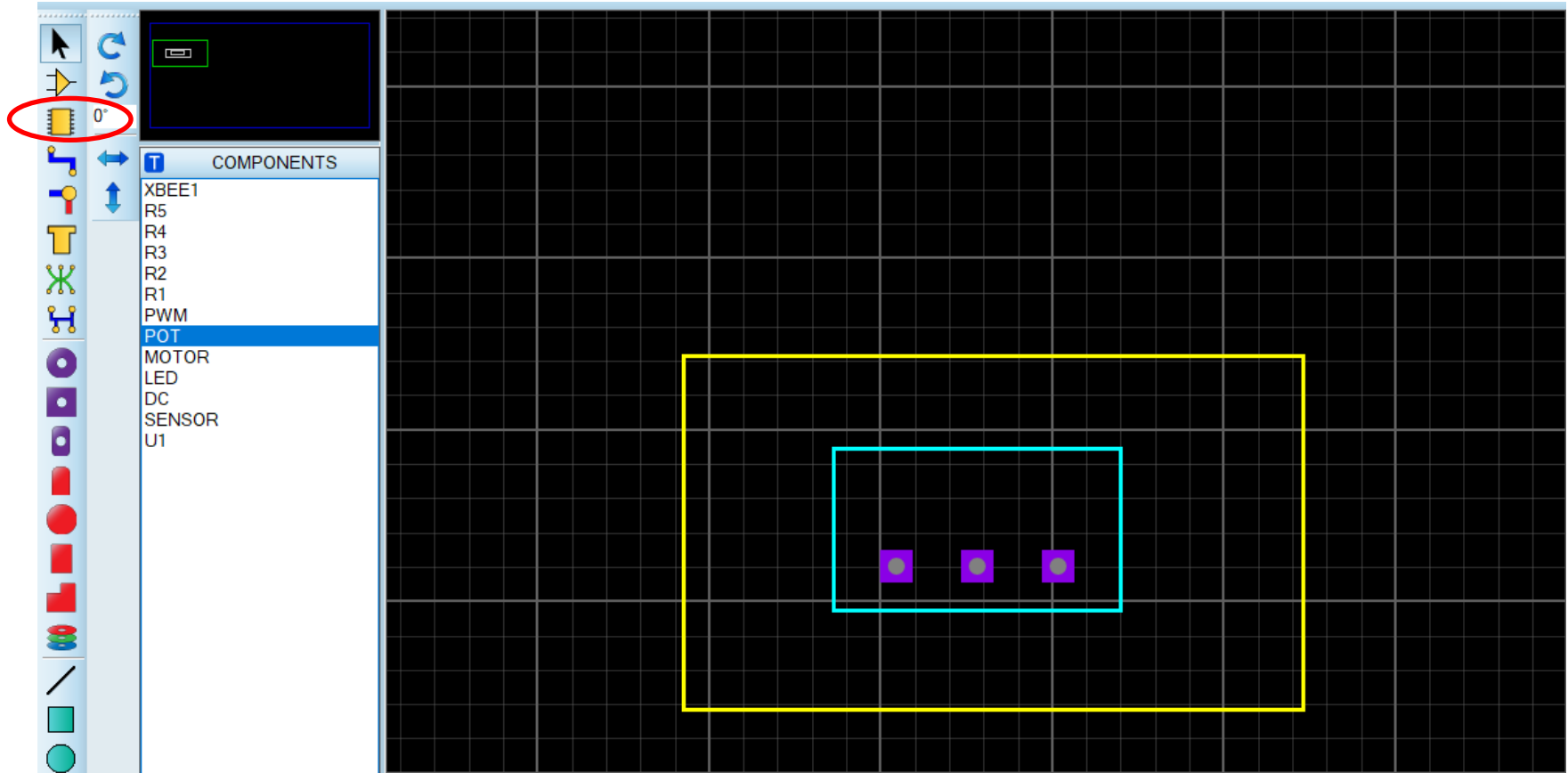
Package Description:
Potentiometer by vasanza

☐ Advanced Mode (Edit Manually)

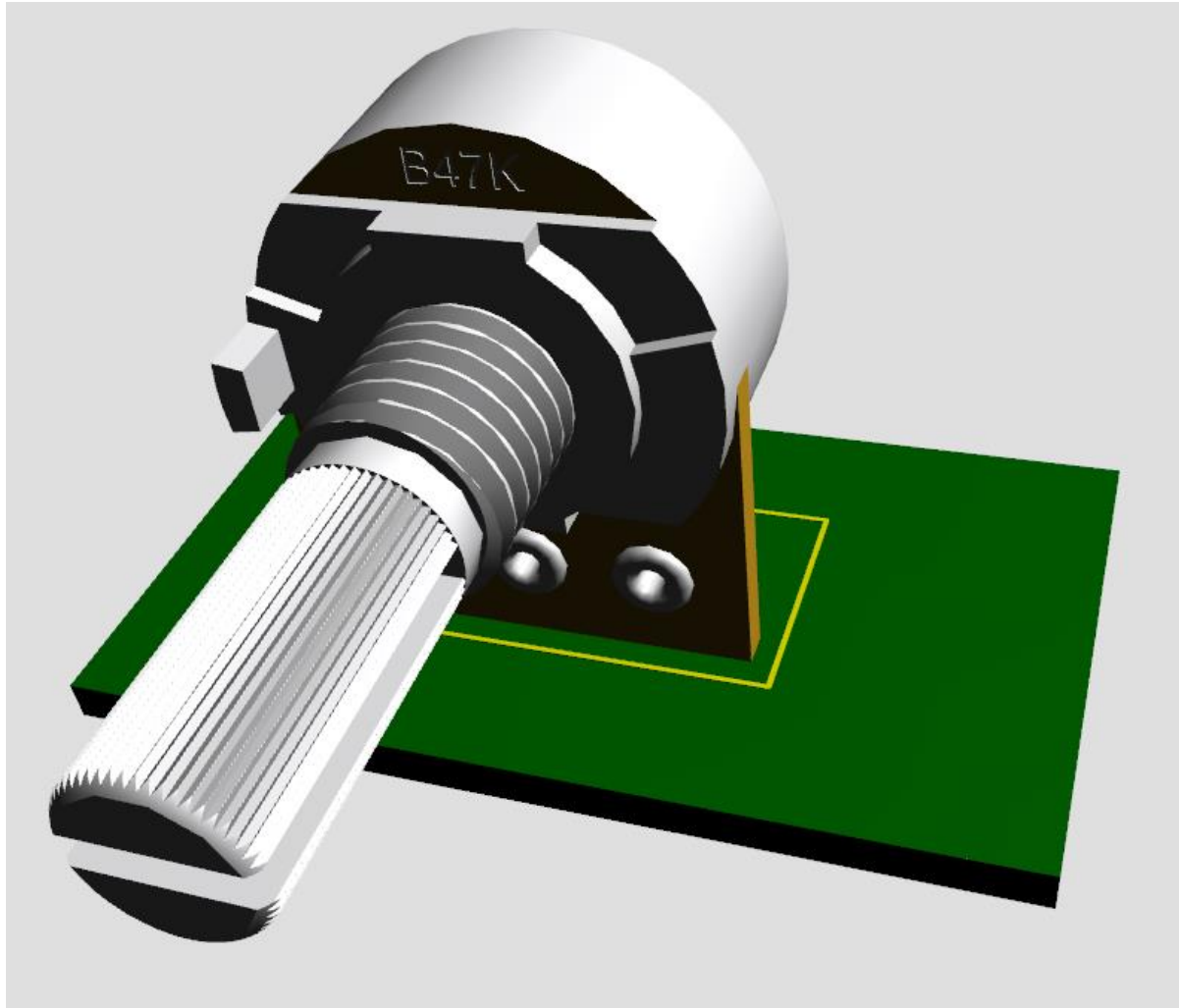
Save Package To Library:
CONNECTORS
CONNECTORS1
IPC7351BGA
IPC7351N
PACKAGE
SMTCHIP
SMTDISC
SMTTRIM
USERPKG

Help OK Cancel

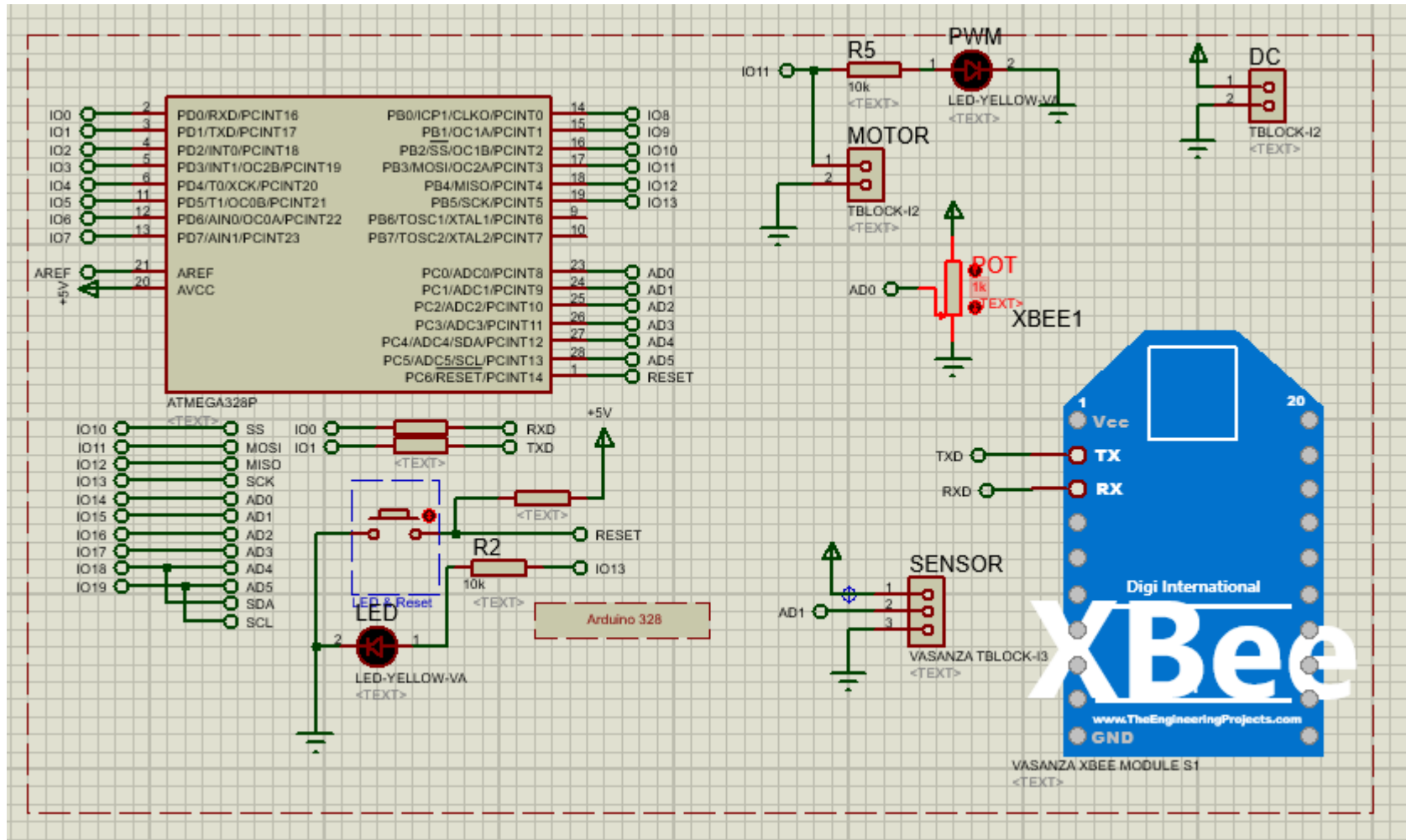
Proteus – PCB Layout



Proteus – 3D Visualizer

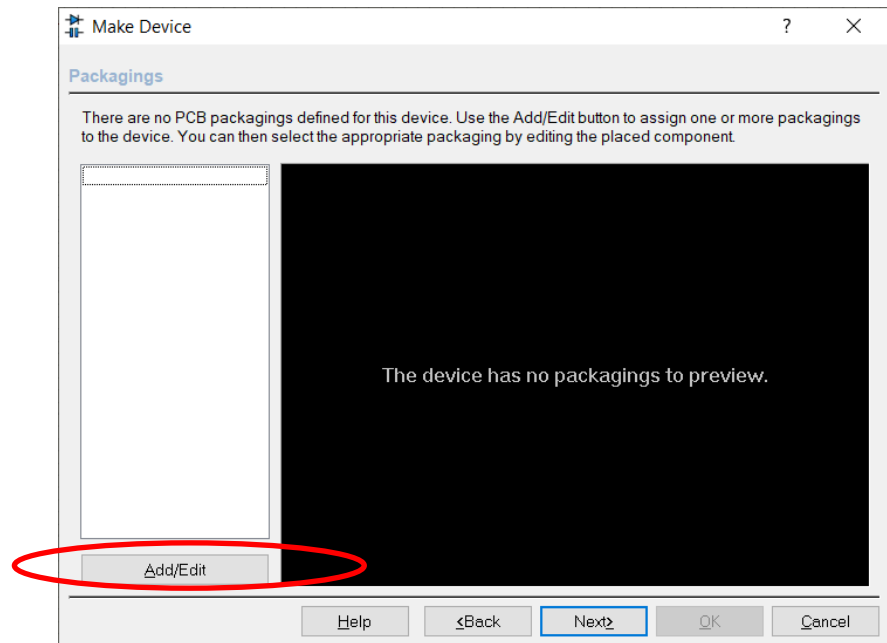
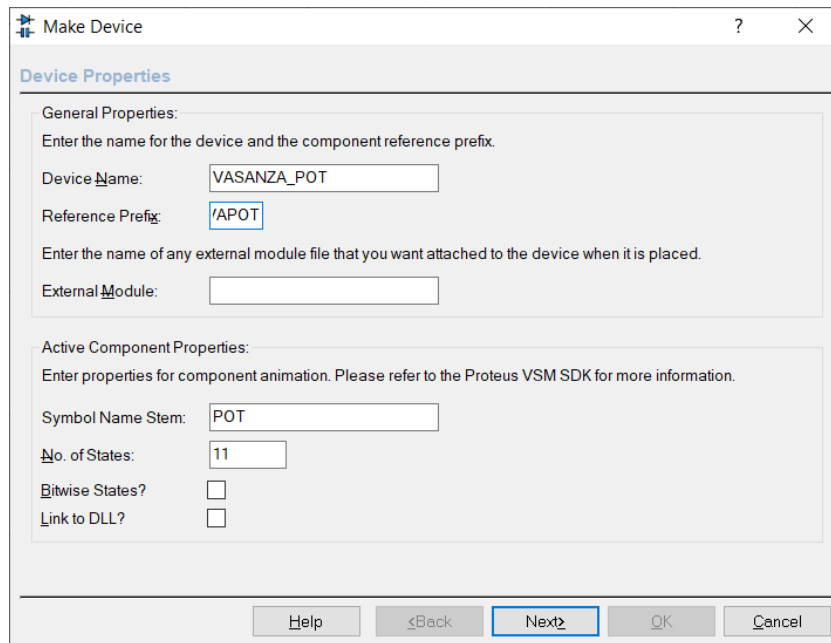


Proteus – Schematic



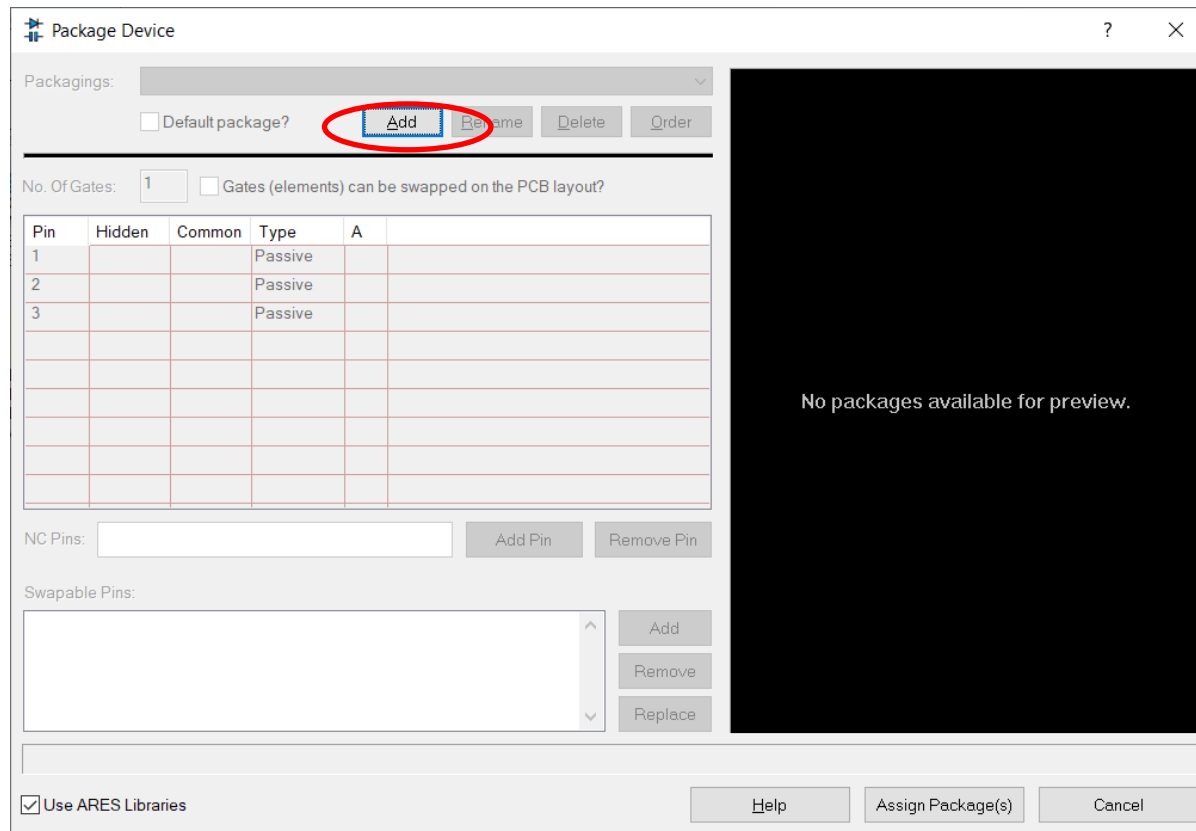
Proteus – Schematic

Make Device



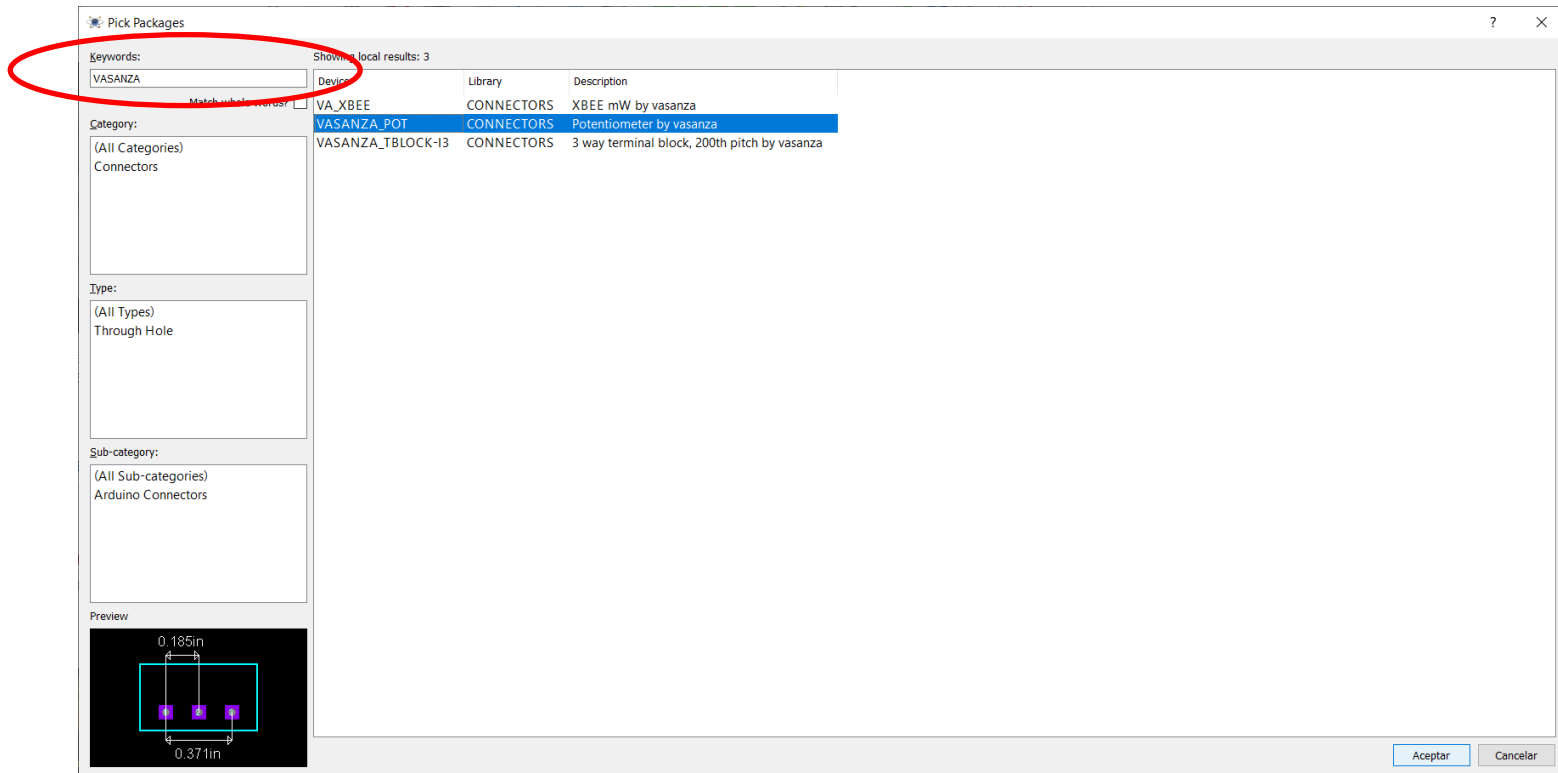
Proteus – Schematic

Make Device



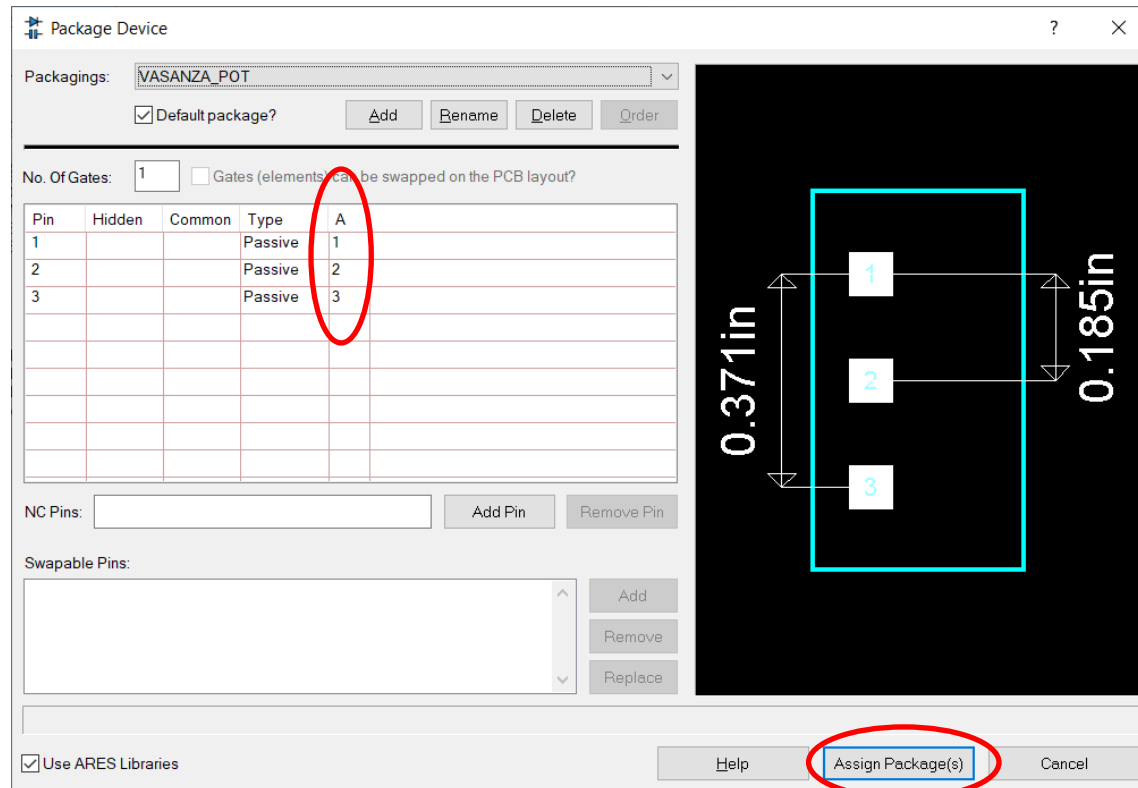
Proteus – Schematic

Make Device



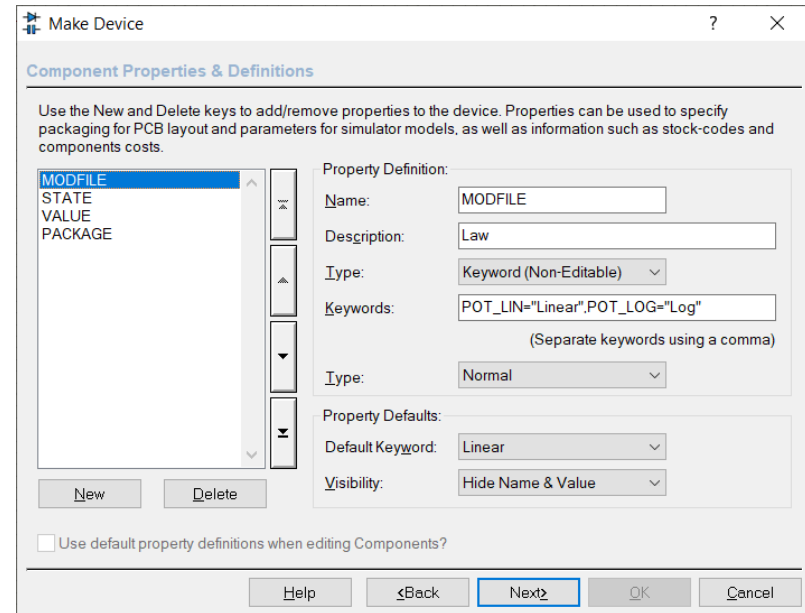
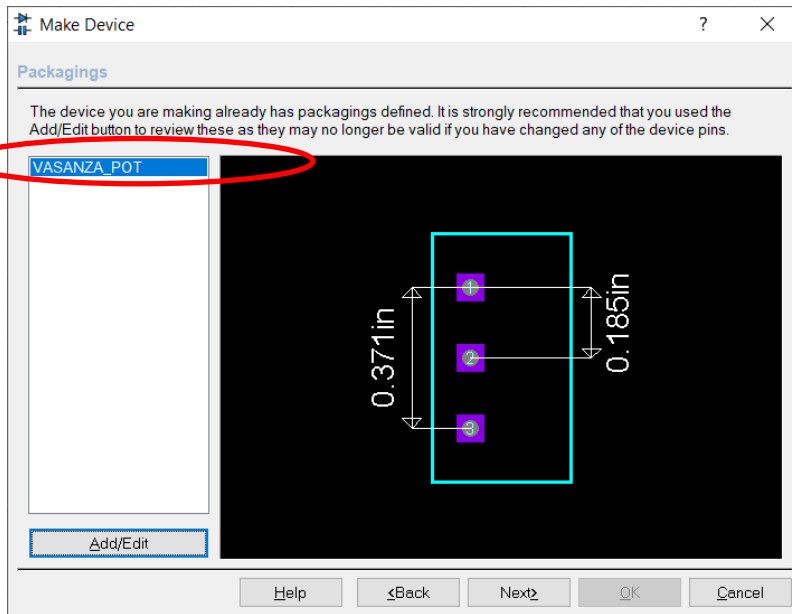
Proteus – Schematic

Make Device



Proteus – Schematic

Make Device



Proteus – Schematic

Make Device



Make Device

Device Data Sheet & Help File

You can link your device to a data sheet (Acrobat .PDF file) and/or a help file. These can then be accessed via special buttons on the 'Edit Component' dialogue form.

Data Sheet:

Data Sheet Filename:

Download Server:

Download Path:

Download User Id:

Download Password:

Help Topic:

Help File:

Context Number:

Buttons: Help, <Back, Next>, OK, Cancel

Make Device

Indexing and Library Selection

Device Category:

Device Sub-category:

Device Manufacturer:

Stock/Order Code:

Device Description:

☐ Advanced Mode (Edit Fields Manually)

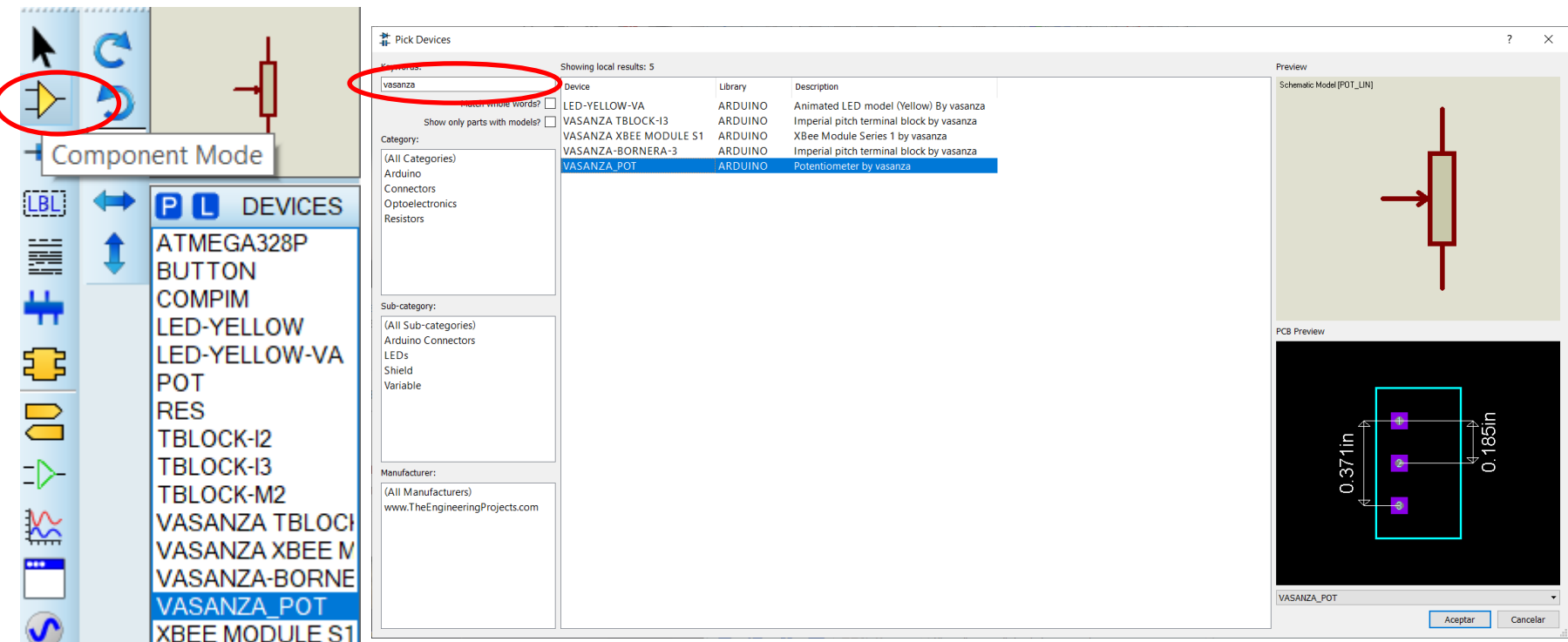
Device Notes:

Save Device To Library:

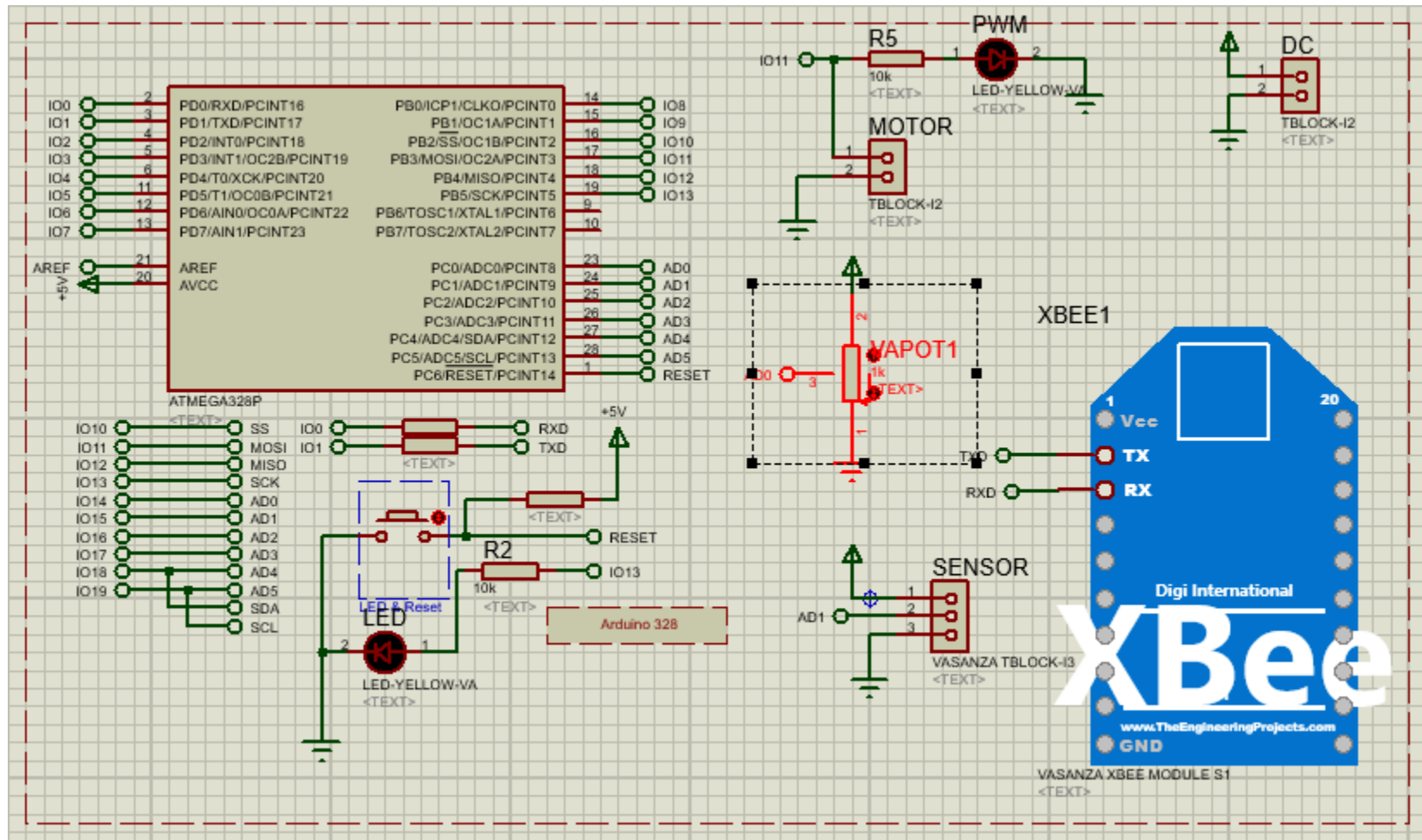
- 74ALS
- 74AS
- 74CBT
- 74F
- 74HC
- 74HCT
- 74LS
- 74LV
- 74S
- 74STD
- ACTIVE
- ANALOG
- ANALOGD
- APEX
- ARDUINO**
- ArduinoMiniTEP
- ArduinoNanoTEP
- ArduinoTEP
- ArduinoUnoTEP
- ARM7
- ASIMMDLS
- ASSMANN
- AVR

Buttons: Help, <Back, Next>, OK, Cancel

Proteus – Schematic

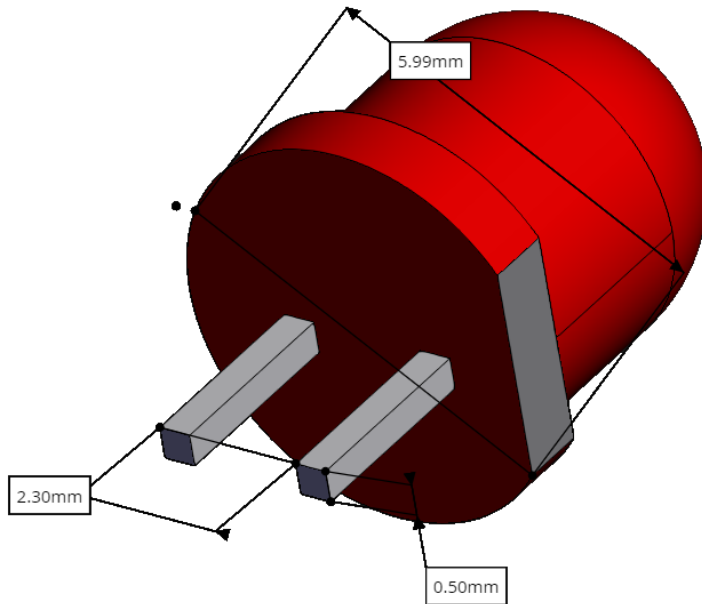


Proteus – Schematic

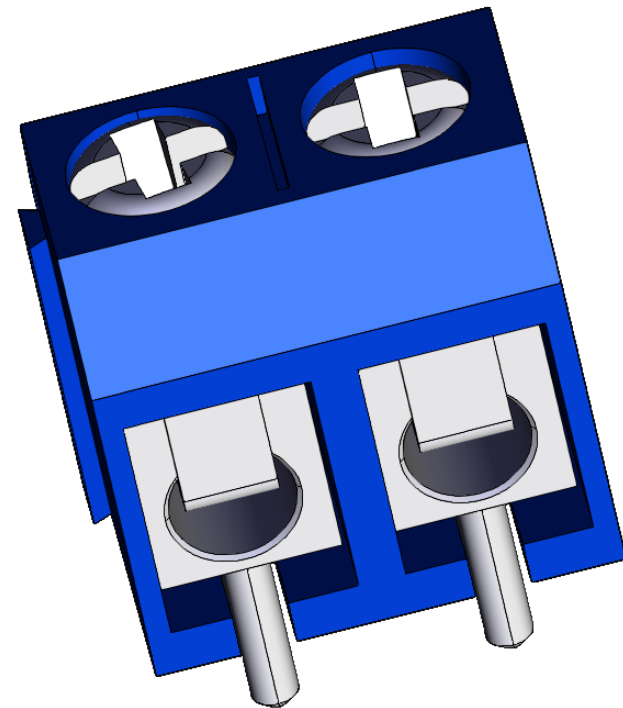


GRABCAD

<https://grabcad.com/library/led-5-0-mm-red-1>

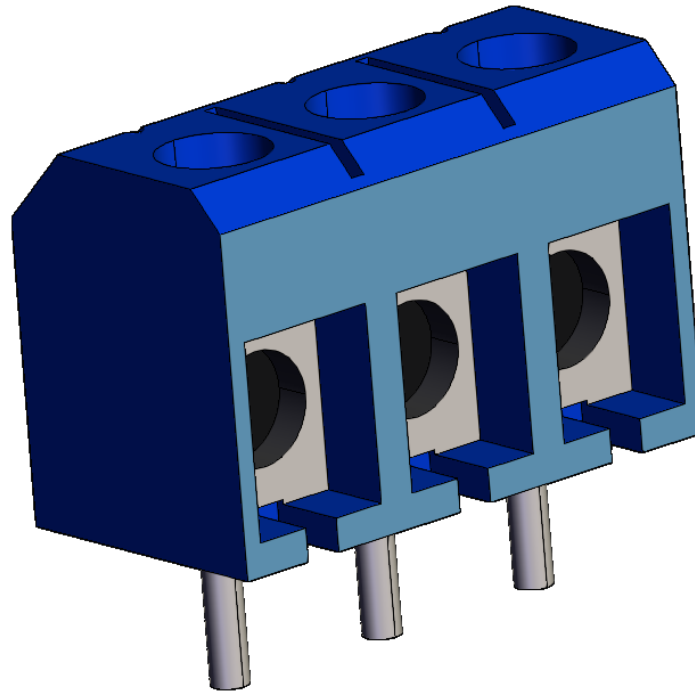


<https://grabcad.com/library/conector-kre-2-1>

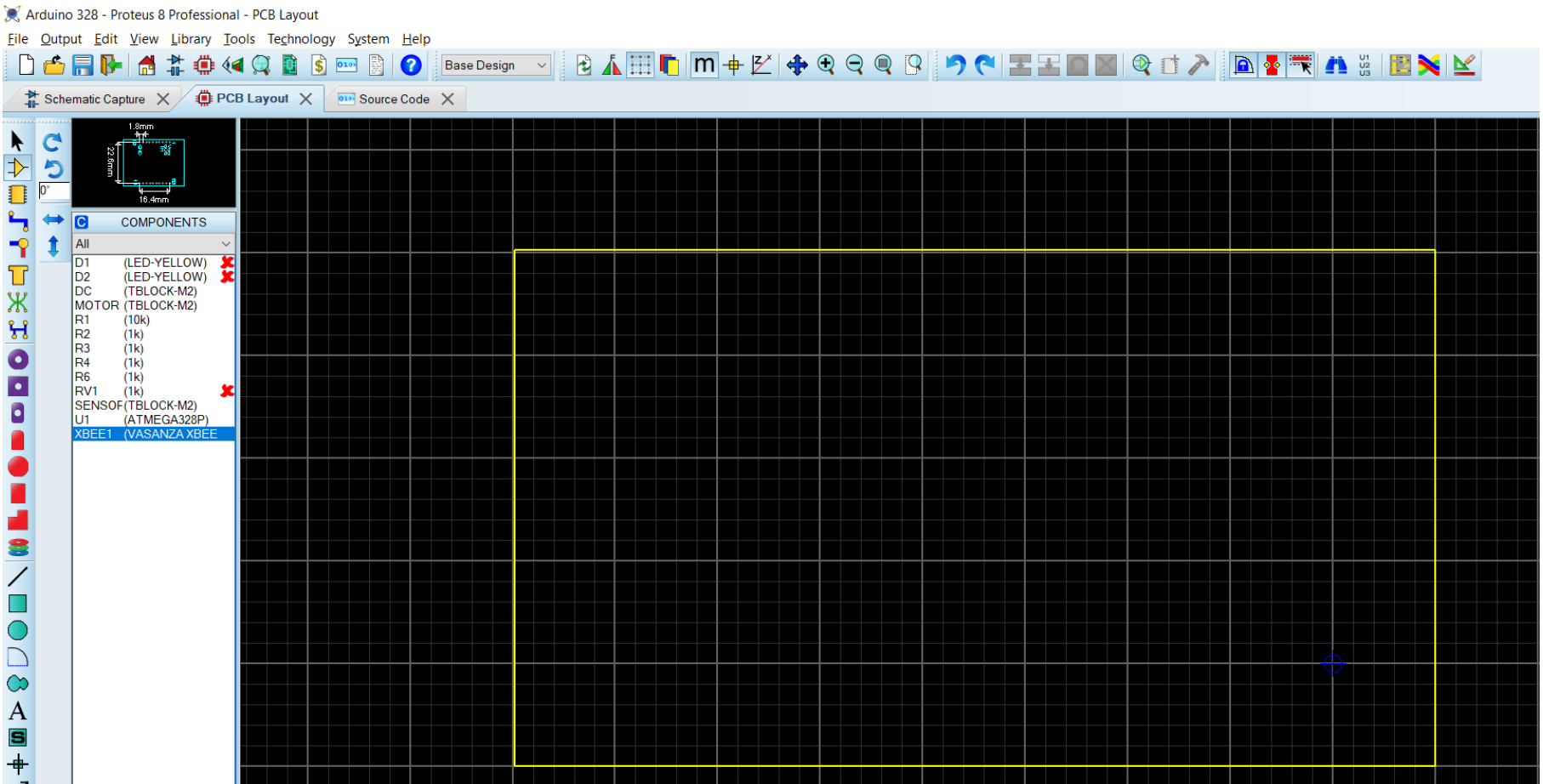


GRABCAD

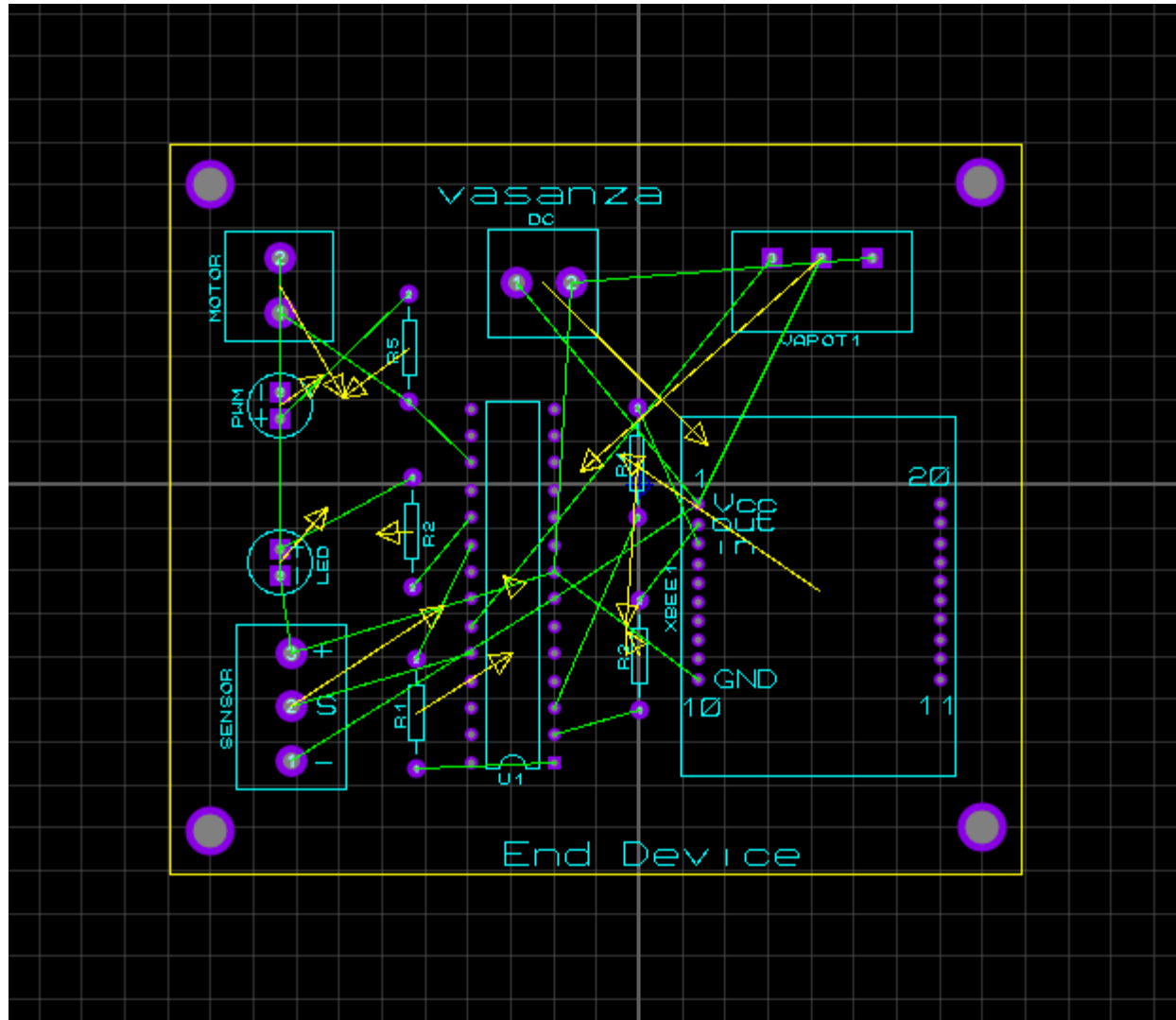
<https://grabcad.com/library/conector-bornera-de-3-terminales-1>



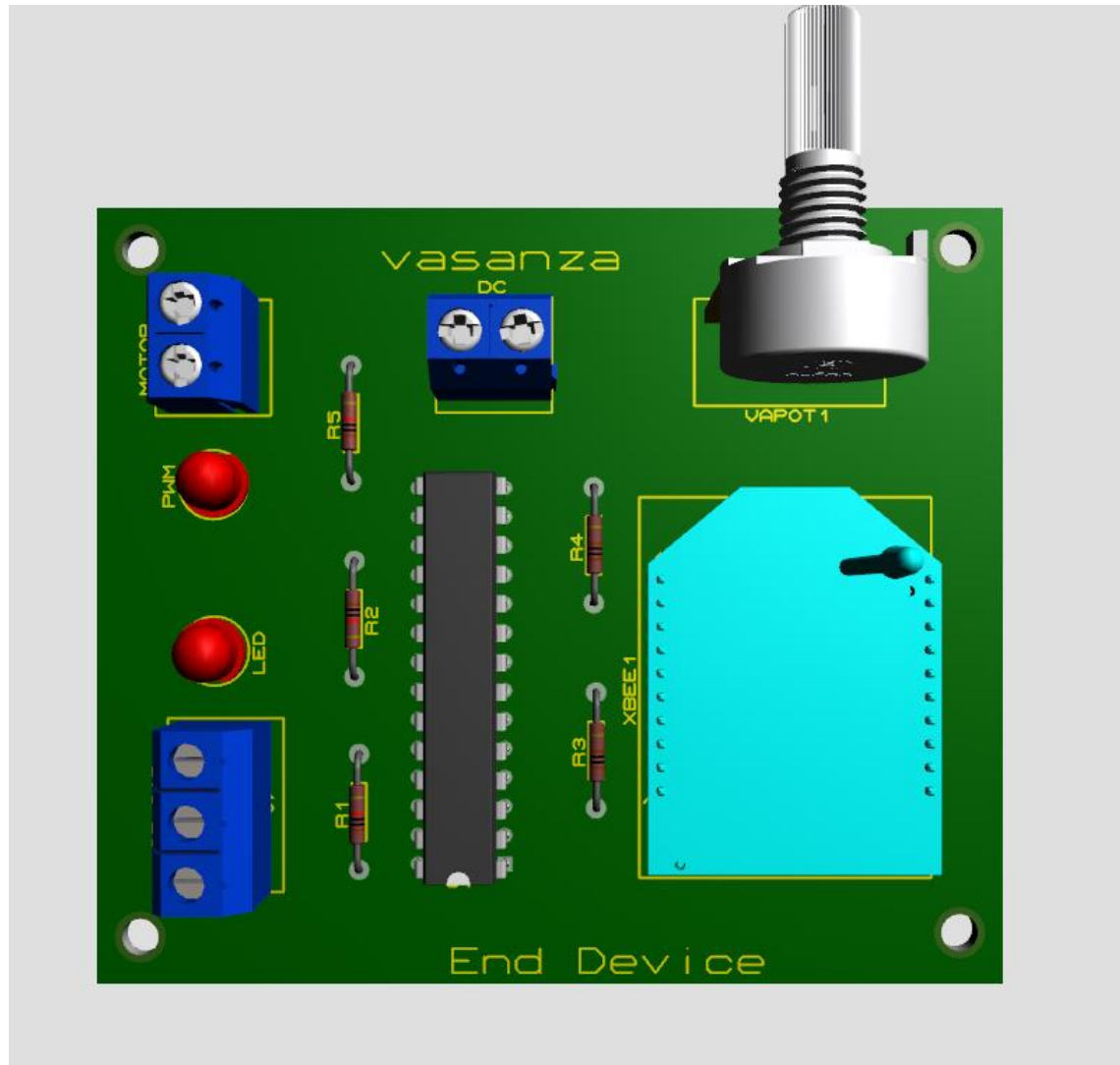
Proteus – PCB Layout



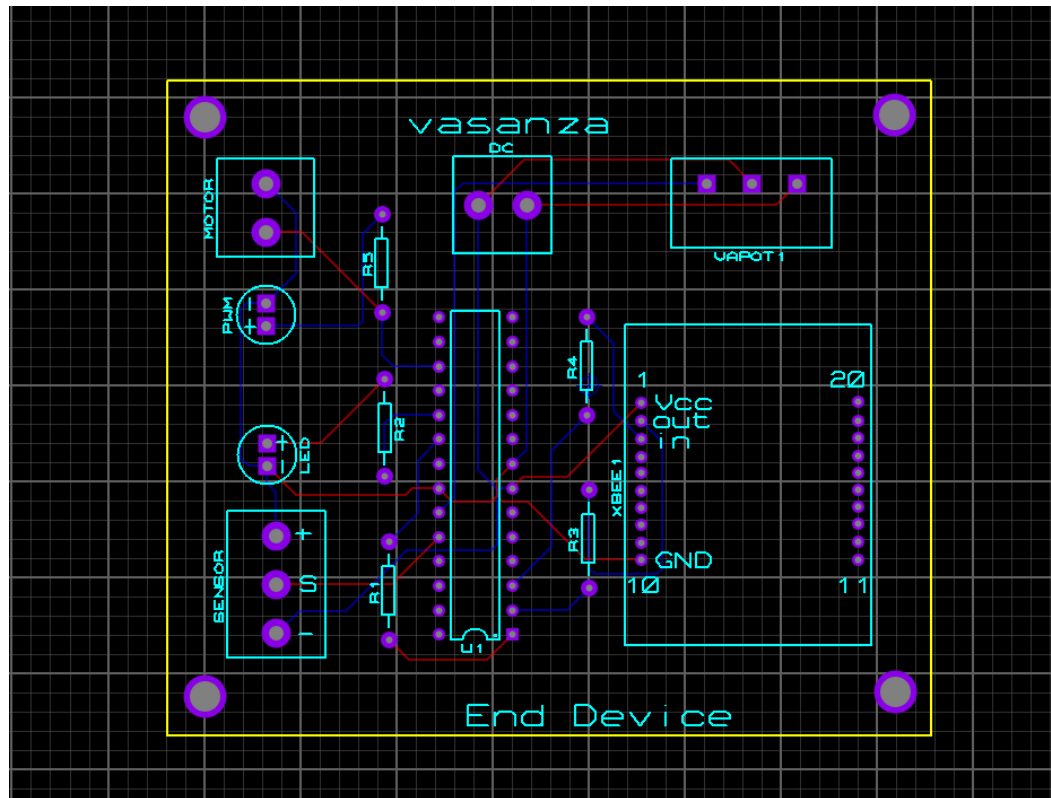
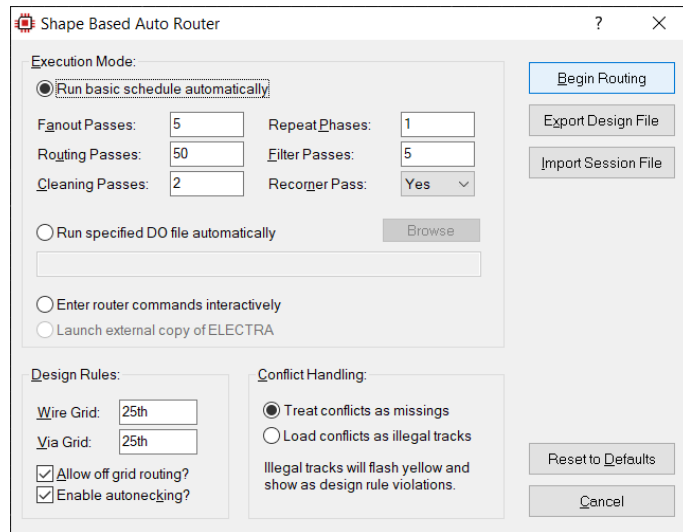
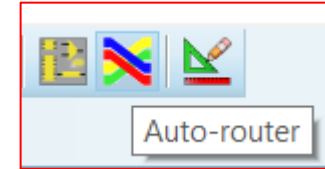
Proteus – PCB Layout



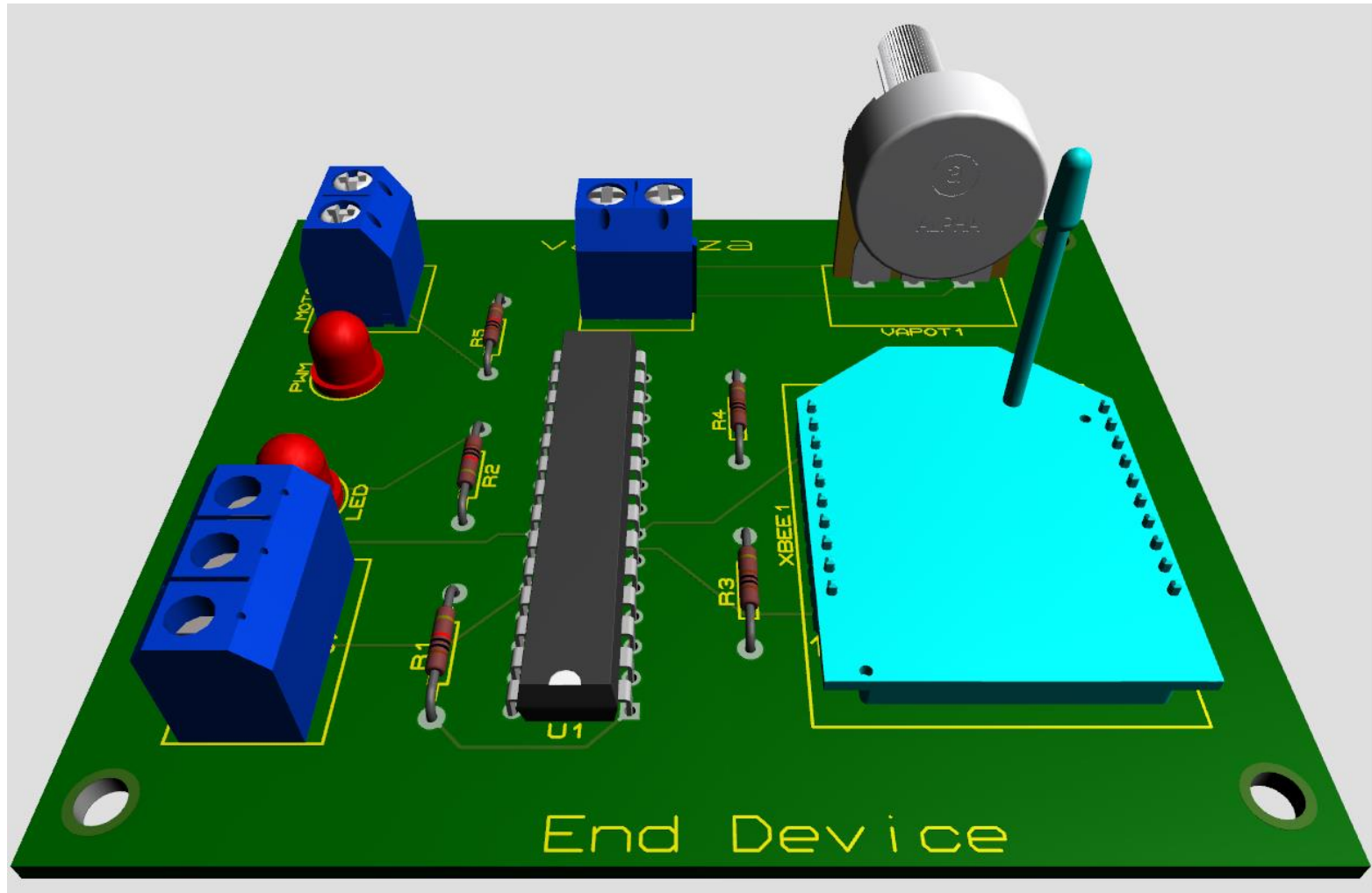
Proteus – 3D Visualizer



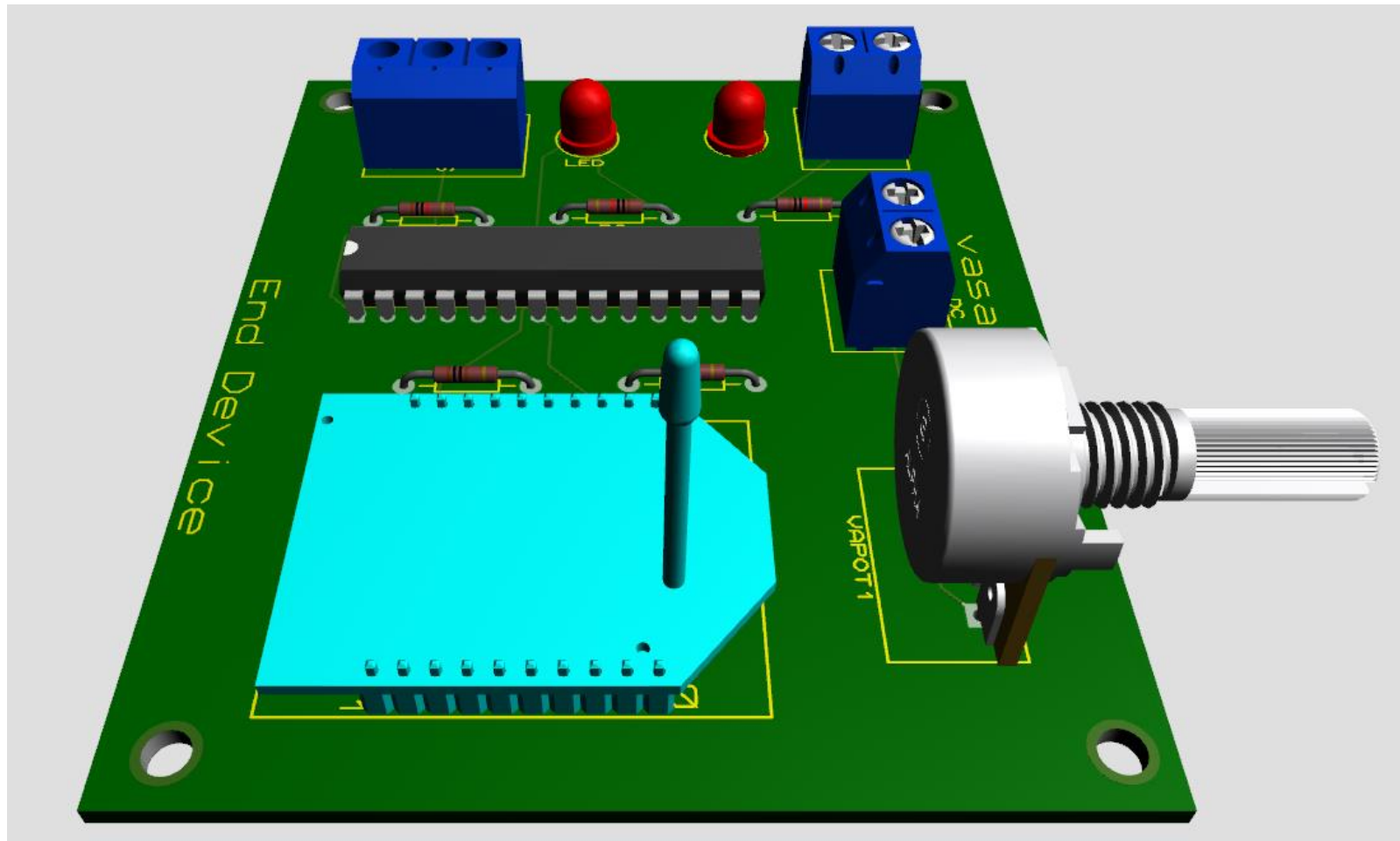
Proteus – PCB Layout



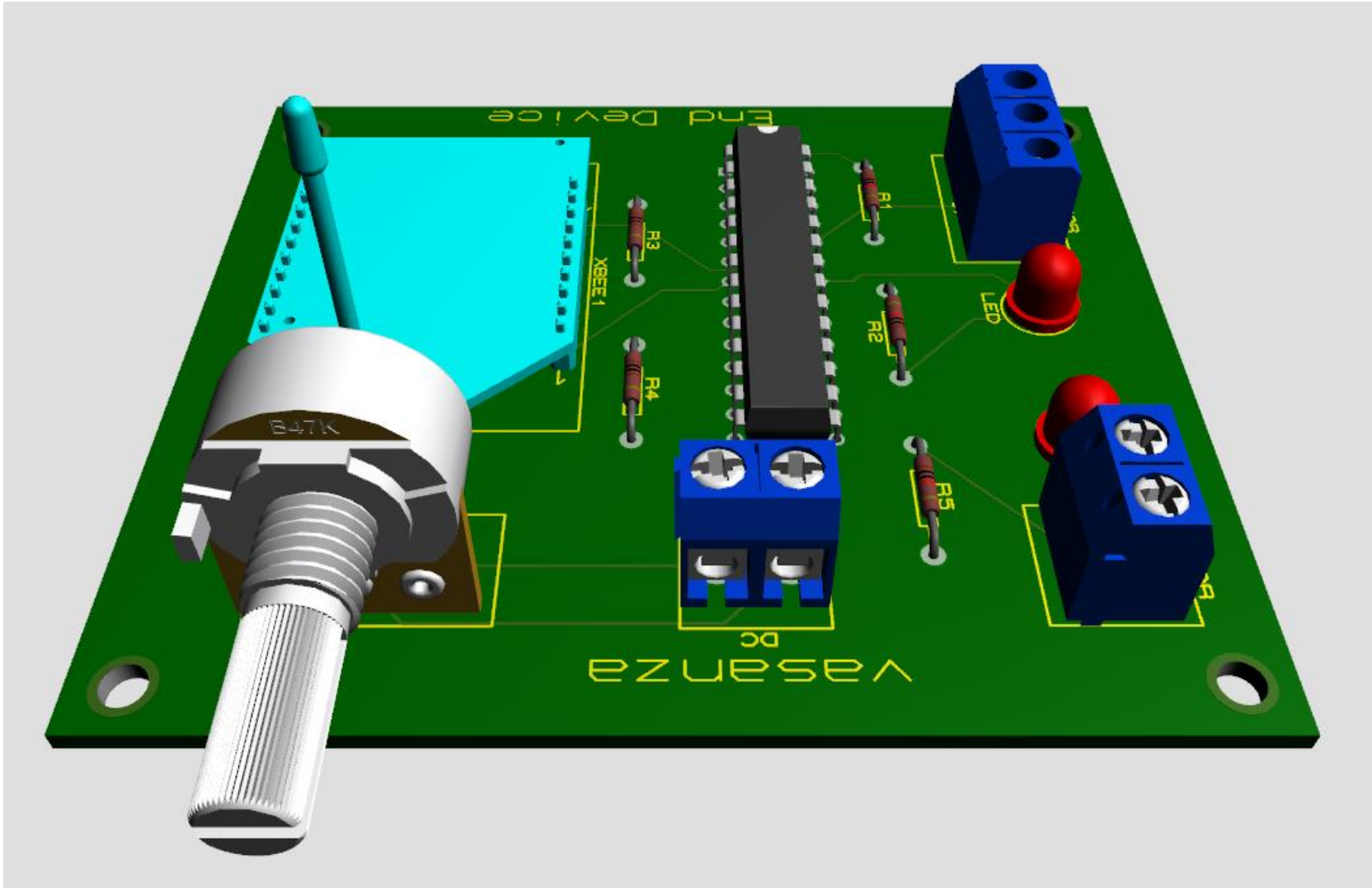
Proteus – 3D Visualizer



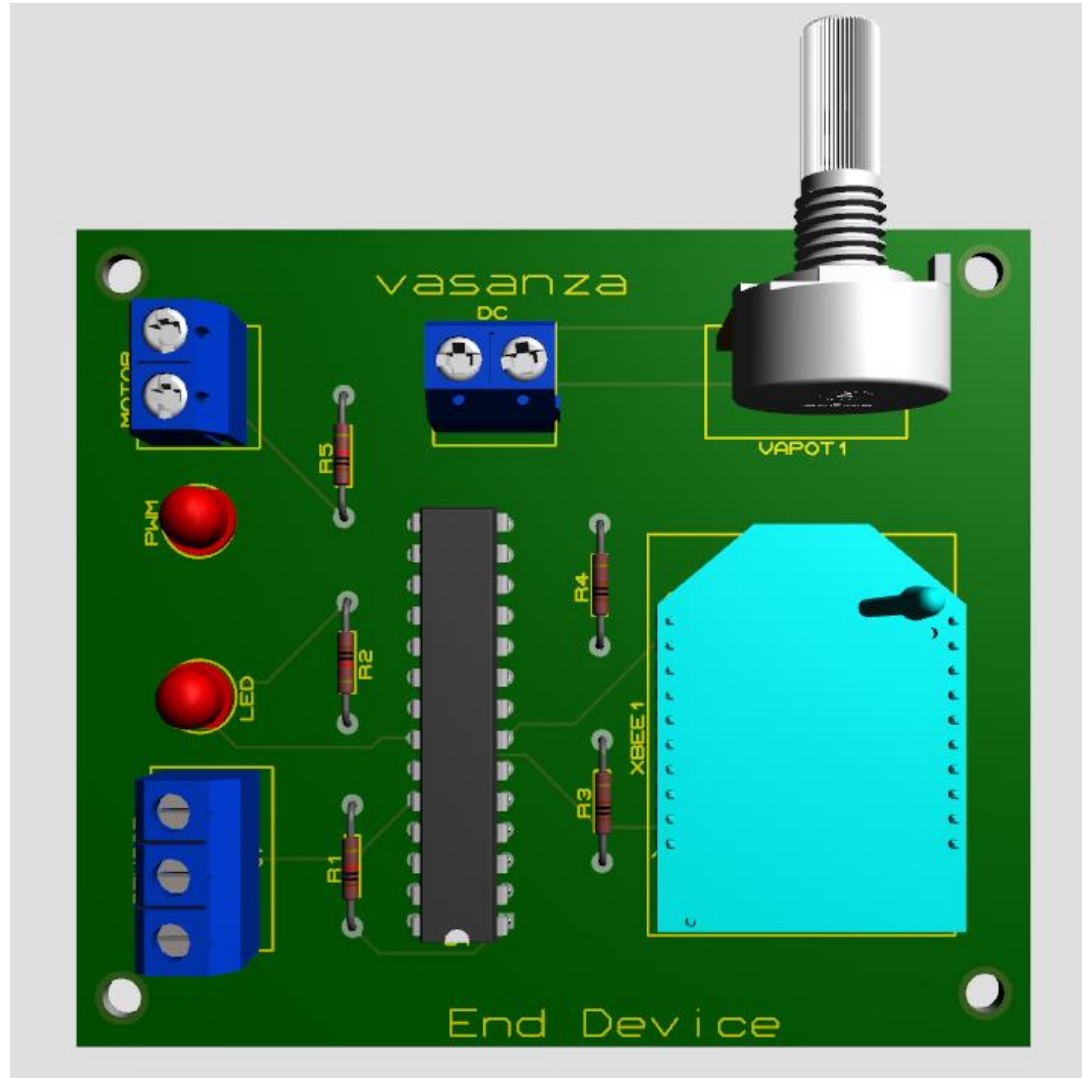
Proteus – 3D Visualizer



Proteus – 3D Visualizer

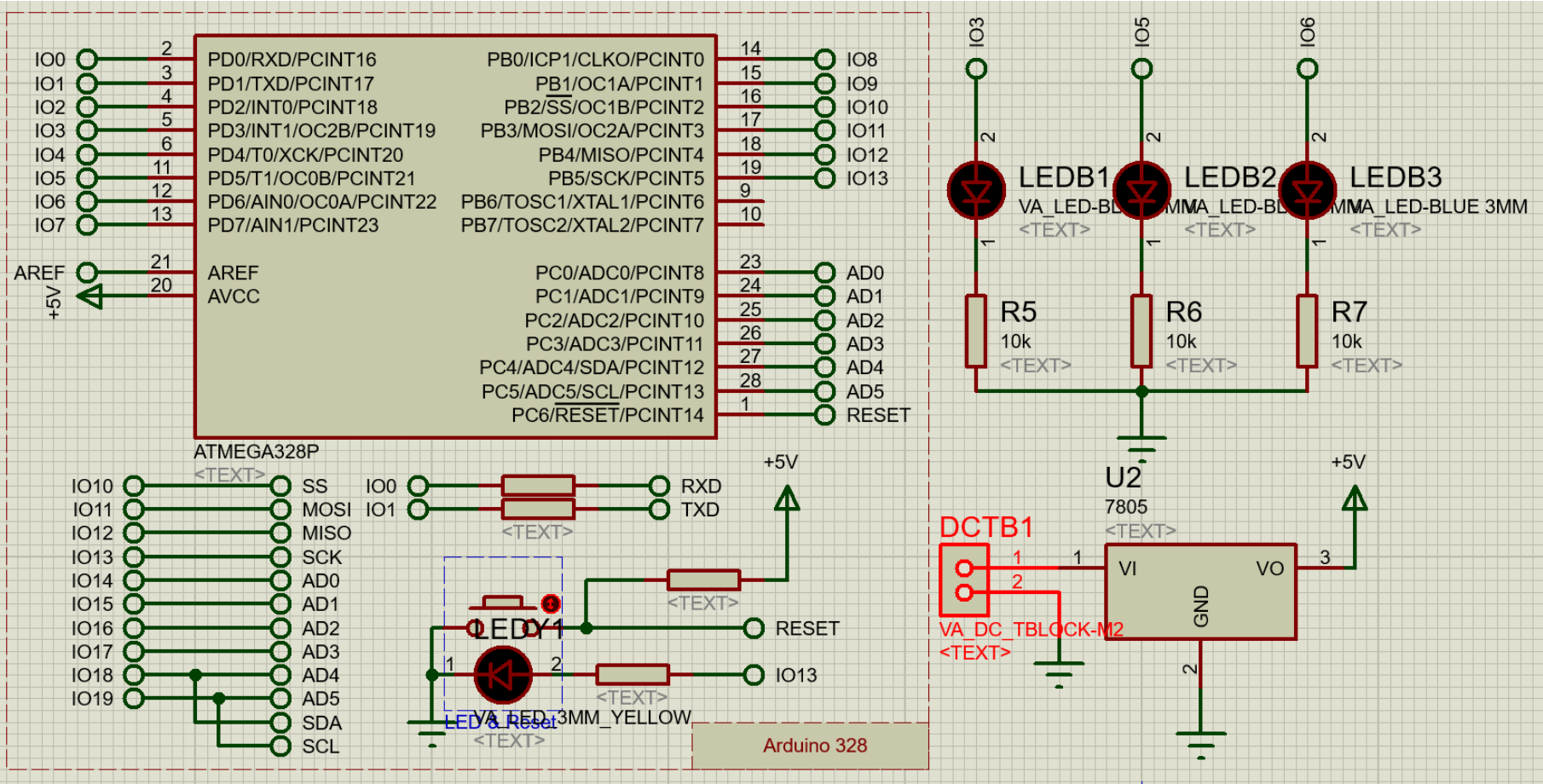


Proteus – 3D Visualizer



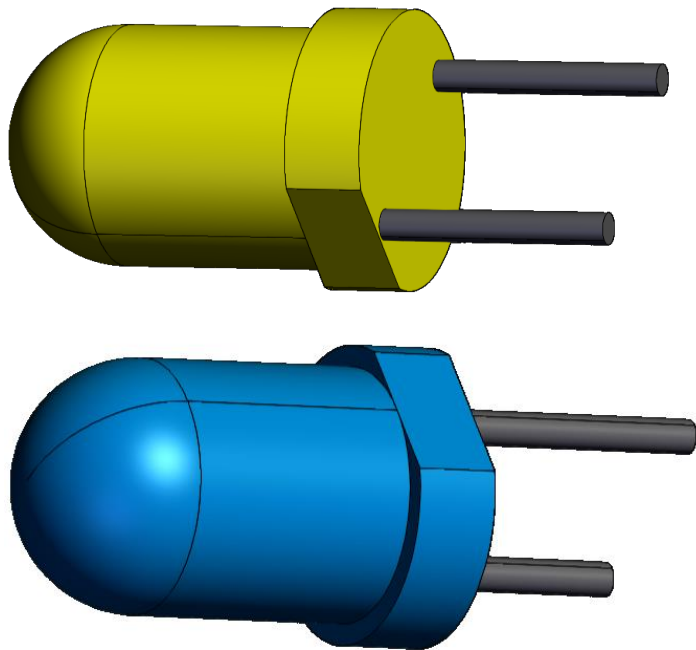
PROTEUS PCB DESIGN (Ejemplo 2)

Proteus – Schematic

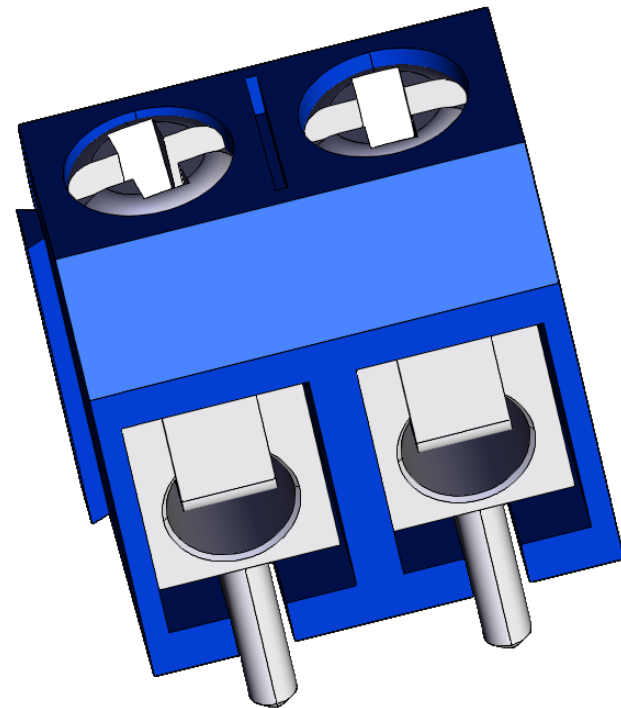


GRABCAD

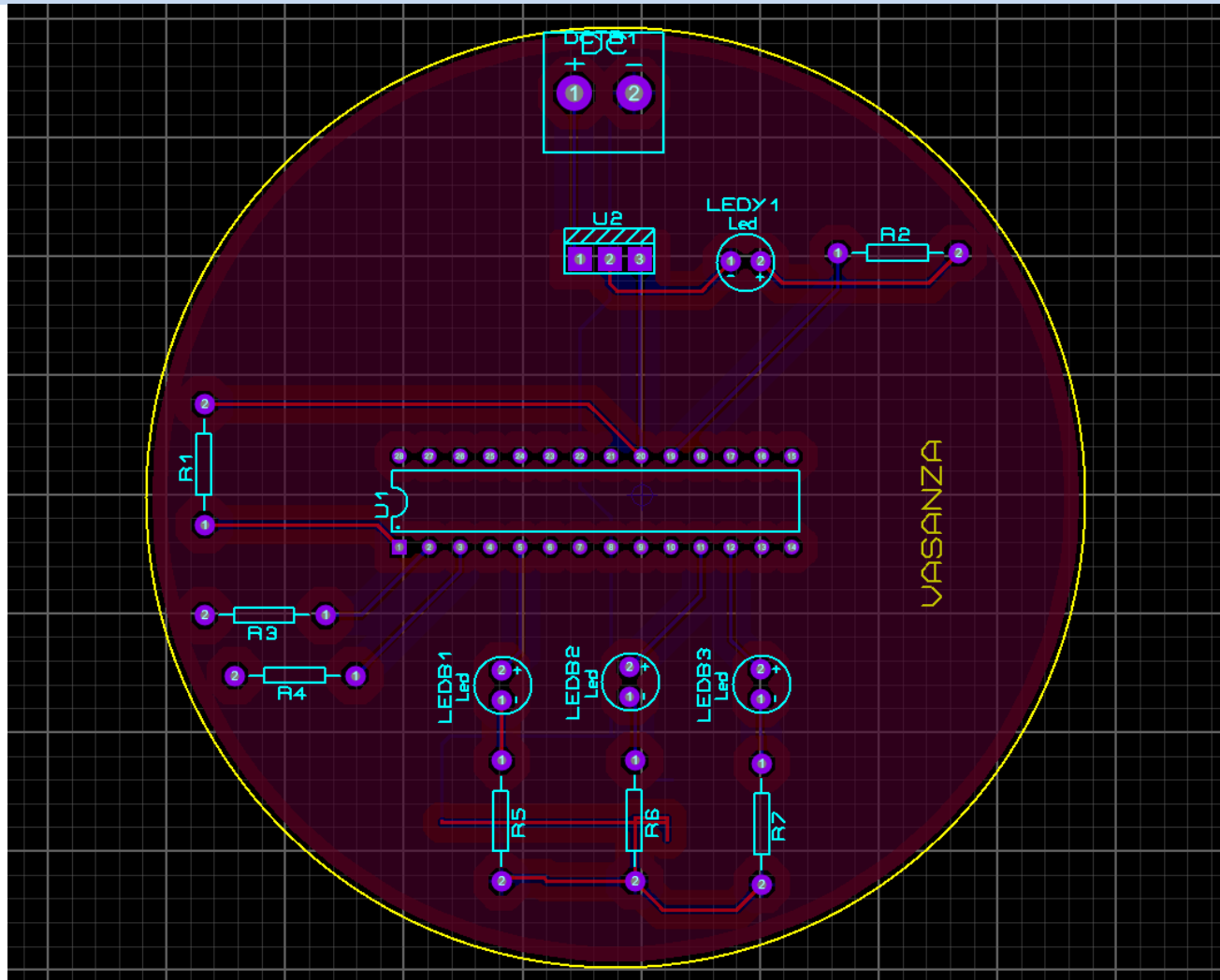
<https://grabcad.com/library/led-3mm-pack-colors-1>



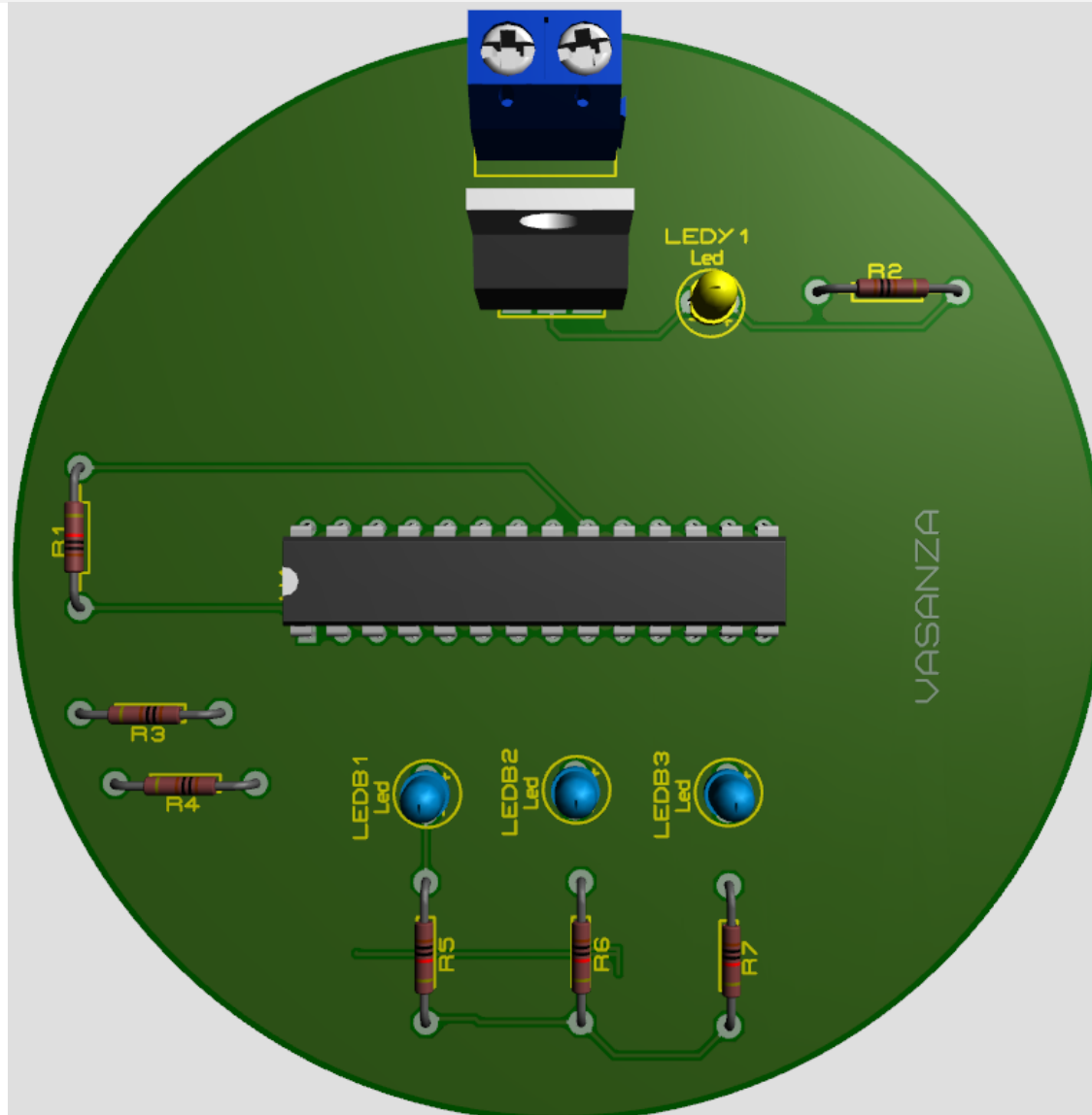
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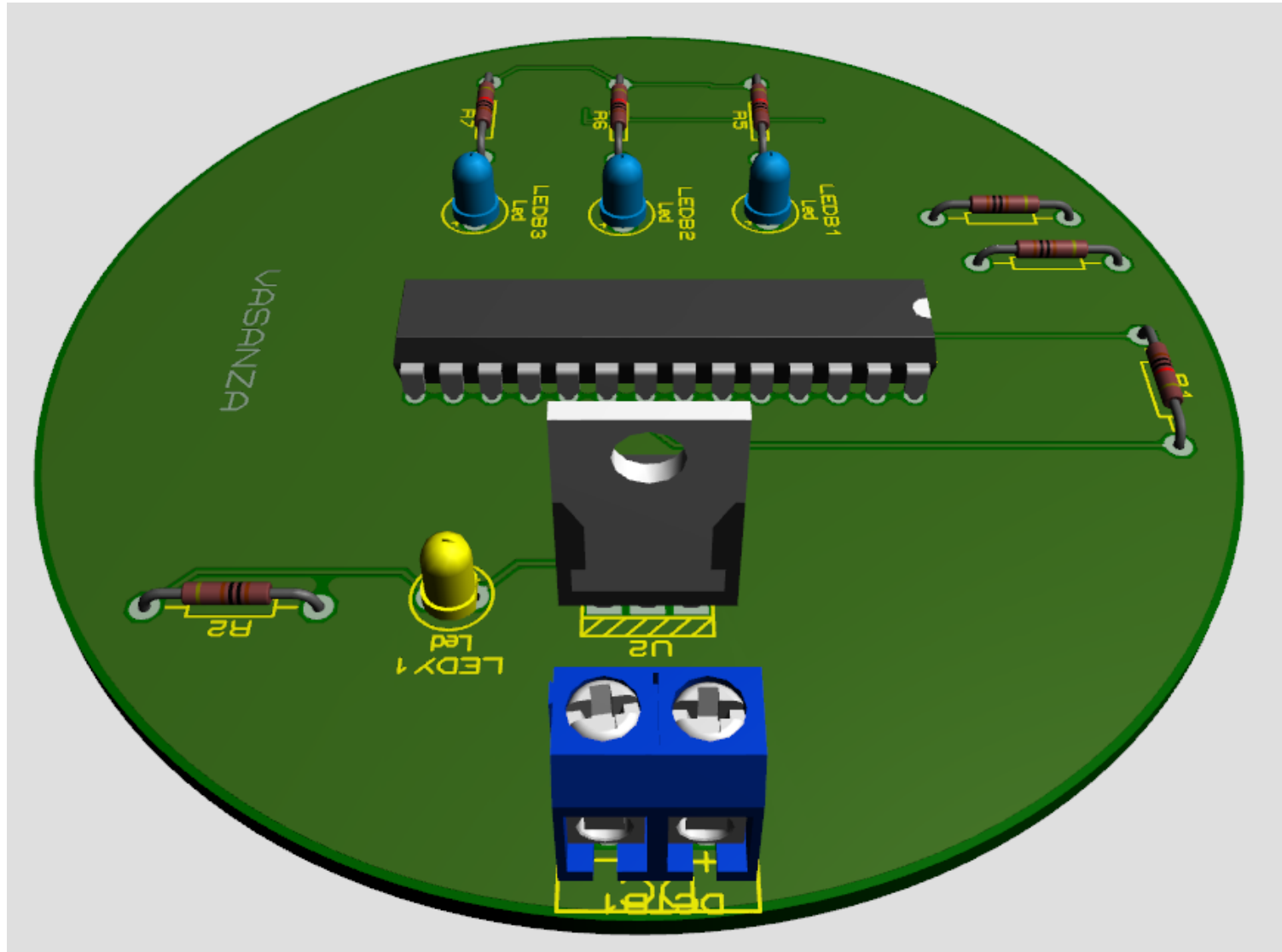
Proteus – PCB Layout



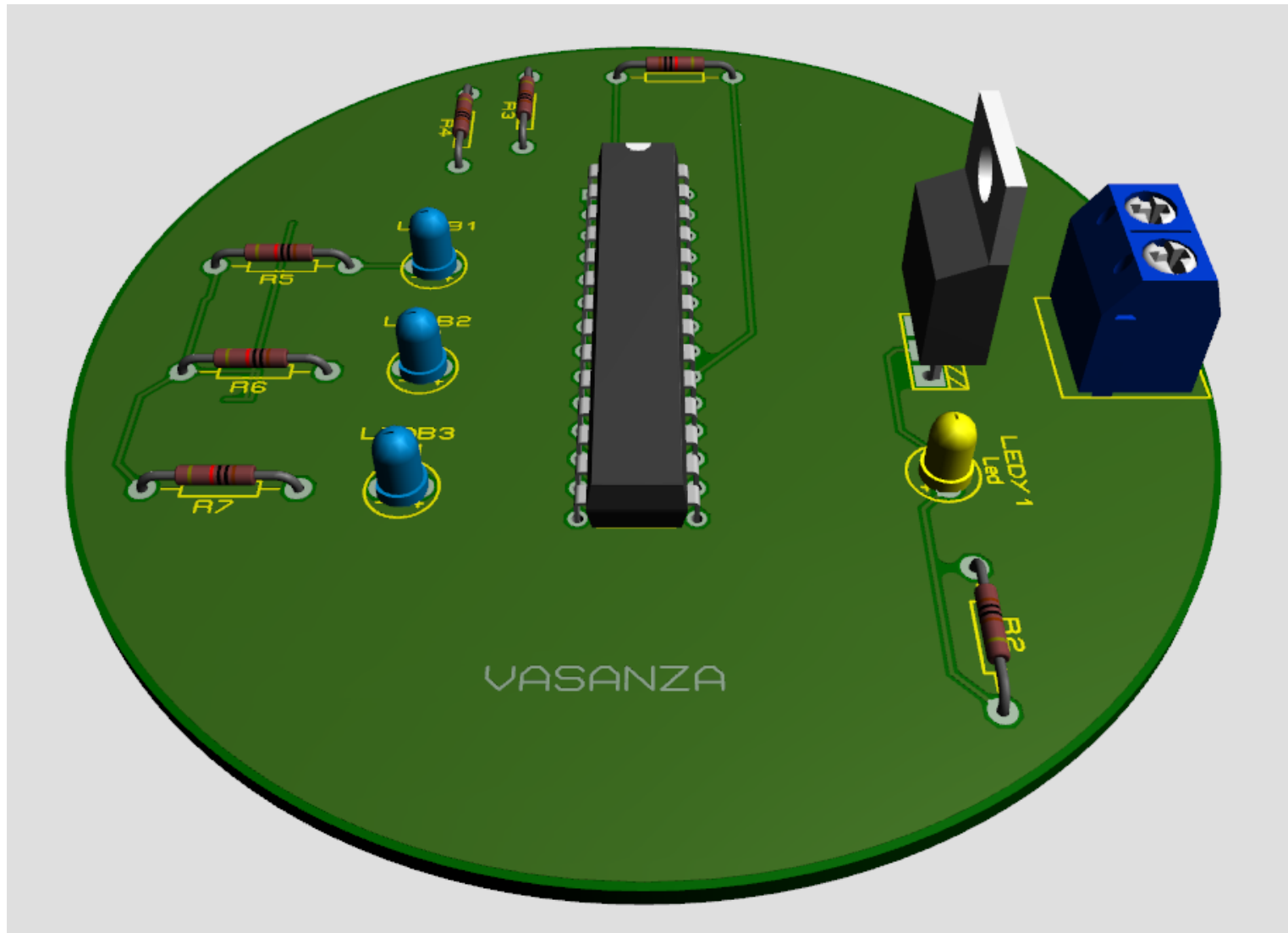
Proteus – 3D Visualizer



Proteus – 3D Visualizer



Proteus – 3D Visualizer

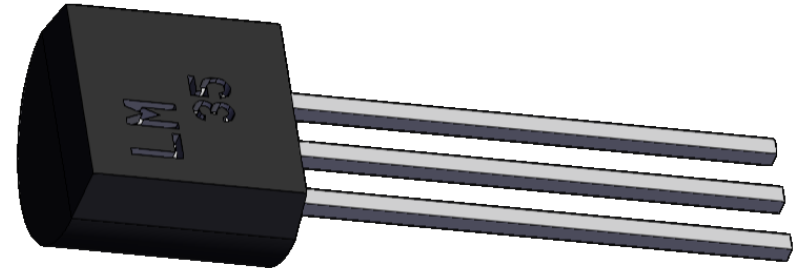


GRABCAD (Otros componentes)

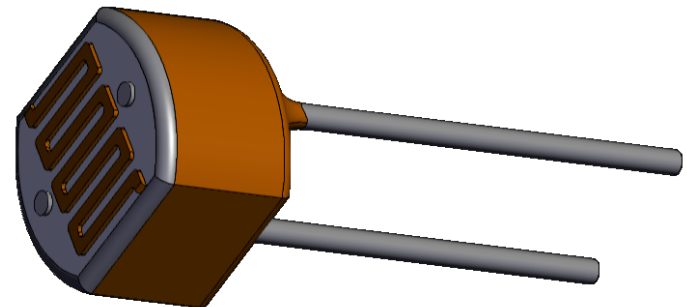
<https://grabcad.com/library/push-button-2-pin-5mm-1>



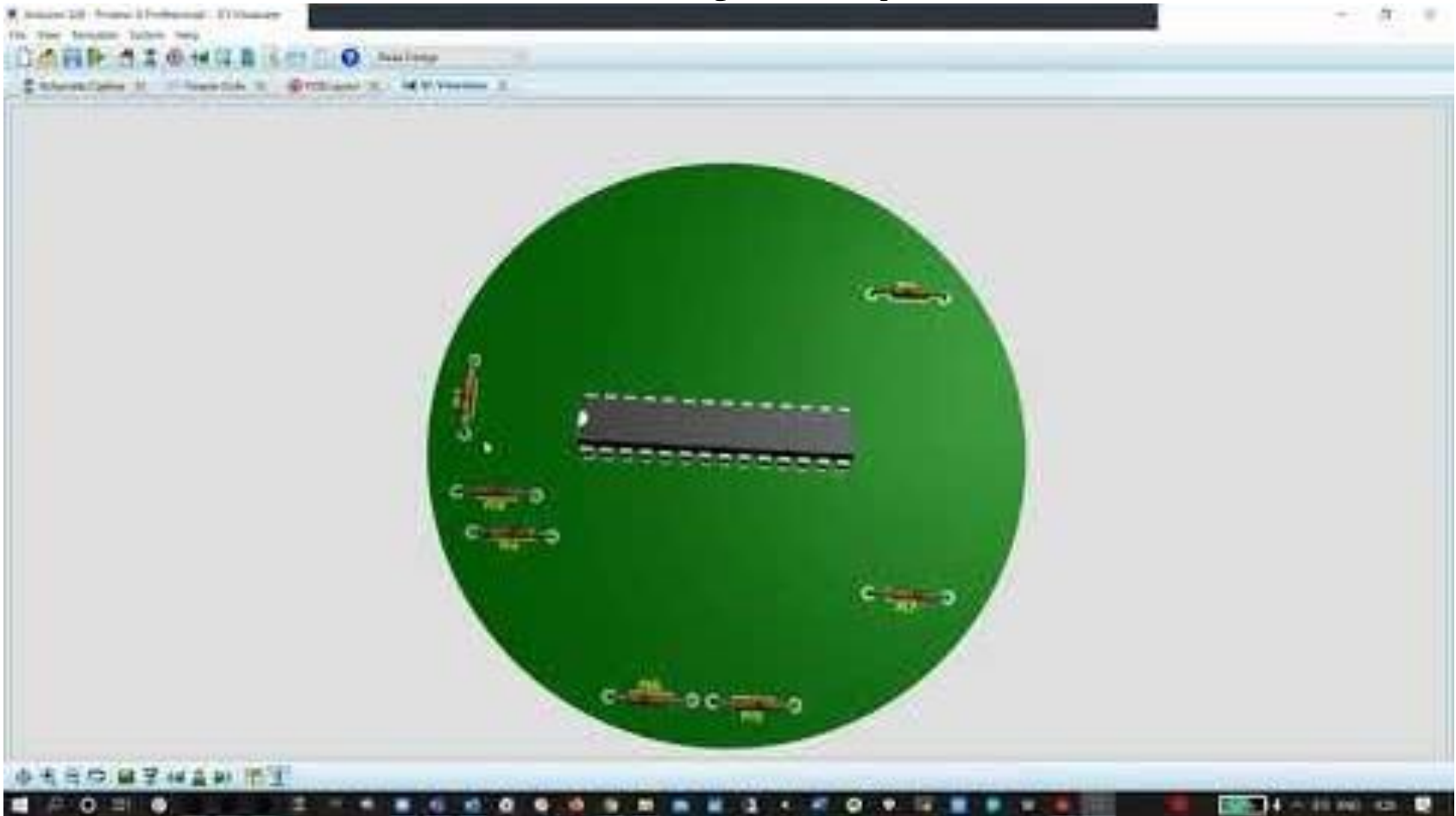
<https://grabcad.com/library/lm35-3>



<https://grabcad.com/library/ldr-photo-cell-1>



Video Ejemplo2



<https://youtu.be/NZdTCrPsyv8>

Recursos

- Código End Device para Arduino
- Código End Device para Proteus
- PCB en Proteus (Ejemplo 1)
- PCB en Proteus (Ejemplo 2)



Leer temas relacionados al diseño de PCB

- [!\[\]\(444b1eae2189e5cd8d096594c07a0a6e_img.jpg\) 2020 PAO2: Electronic Prototype Development](#)
- [!\[\]\(b81fe50bc966474a9bf510149094d8e3_img.jpg\) #Proteus #PCB Design](#)
- [!\[\]\(94faa64fb42ea7f60c43d916dda9de51_img.jpg\) Instalación de #ALTIUM #CircuitMaker y especificaciones del #ESP32](#)
- [!\[\]\(83869583ee10f8aa2e9787431ee1ddc1_img.jpg\) #ESP8266 Module](#)
- [!\[\]\(c8c4b3ab893e3f5c9fc372d81c022dbd_img.jpg\) Create a #Schematic in Altium Designer](#)
- [!\[\]\(1544eb02c538182c3b92ab34ff13b254_img.jpg\) Create a #PCB in #Altium Designer](#)
- [!\[\]\(d38d890159577c667969d148fb534a48_img.jpg\) Modular design approach in #Altium Designer](#)