

Easily **A**pplicable **G**raphical **L**ayout **E**ditor **EAGLE**

Schematic, Spice Simulator and Layout Editor

Instituto Tecnológico de Morelia
Maestría en Ciencias en Ingeniería Electrónica

18 de junio de 2018

- 1 Introduction
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 - Work space
 - Time to work

EAGLE is a software to design schematics and **PCBs** (Printed Circuit Boards). Its popularity around the world became for the use in **DIY** (Do it Yourself) electronic projects; because have a Freeware license and a large number of component libraries around the network.

- The **Schematic Editor** allows to draw diagrams for electronic systems.
- The **Layout Editor**, which allows to design **PCBs**.

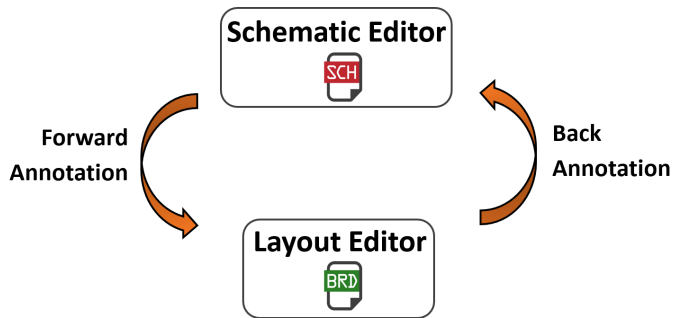


Figure 1: Interaction between Schematic and Layout editor.

System Requirements for Autodesk EAGLE

Operative System	Requirements
Windows	Microsoft® Windows® 7 or newer is required. EAGLE 64-bit requires a 64-bit operating system.
Linux	Linux® based on kernel 2.6 for Intel computers, X11 with a minimum color depth of 8 bpp, the following runtime libraries: libssl.so.1.0.0, libcrypto.so.1.0.0, and CUPS for printing.
Mac	Apple® Mac OS® X version 10.10 or above for Intel computers.
All operating Systems	A minimum graphics resolution of 1024x768 pixels and preferably a 3-button wheel mouse .

License

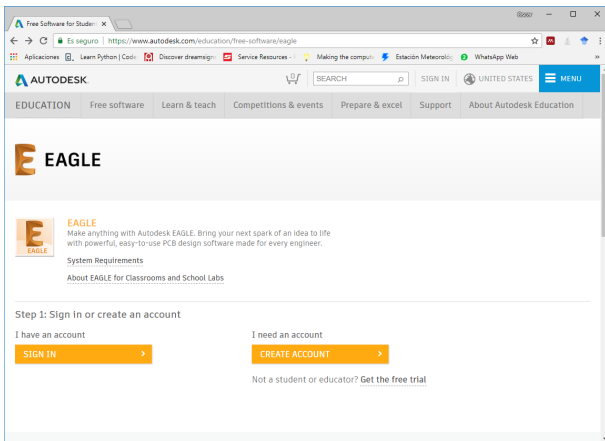


Figura 2: <https://www.autodesk.com/education/free-software/eagle>

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Student

Date of Birth

September

16

1991

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First name

Oscar

Last name

Lobato

Email

relobato15@hotmail.com



Confirm email

relobato15@hotmail.com



Password

|

- At least 1 letter
- At least 1 number
- Minimum of 8 characters
- At least 3 unique characters

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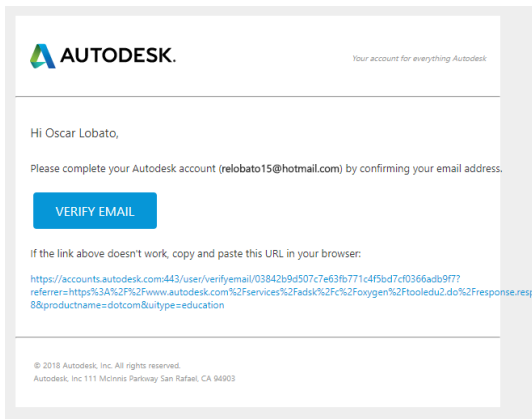


Figura 6: <https://www.autodesk.com/education/free-software/eagle>

Just one more step



Tell us about your educational institution and how you plan to use your free software.

Name of educational institution

Instituto Tecnológico de Morelia

Area of study

- Architecture, Engineering & Construction
- Media & Entertainment
- Product Design & Manufacturing
- Others

Enrolled from

January ▼

2017 ▼

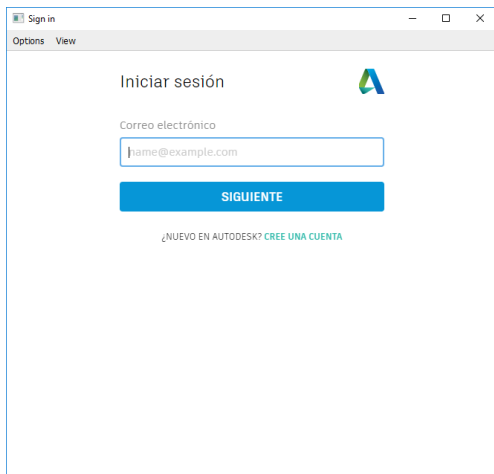
Graduate in

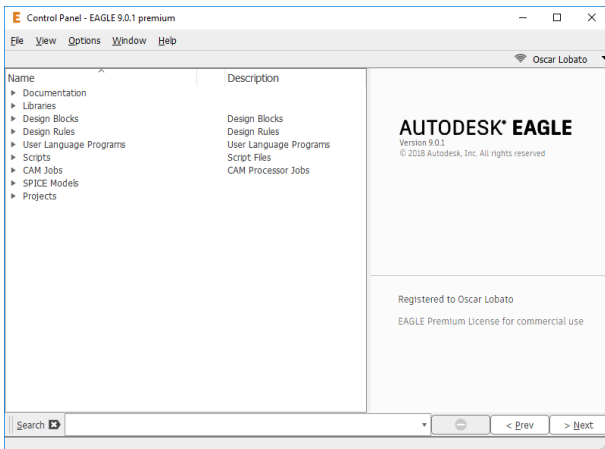
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Panel Control





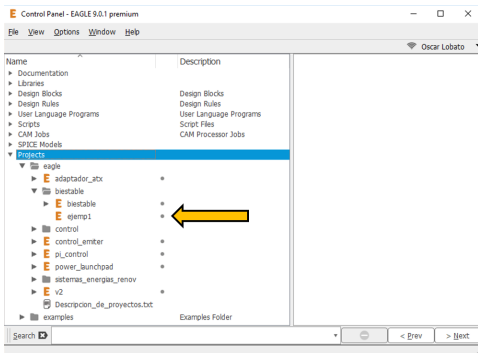


Figura 8: Close project

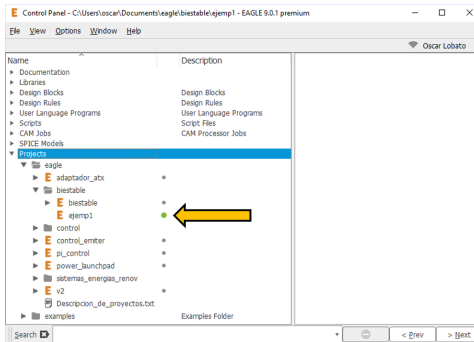
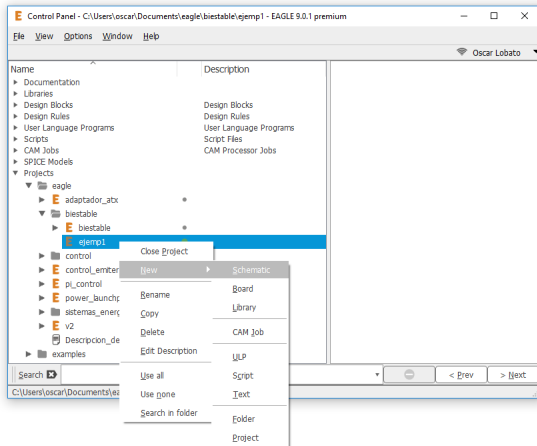
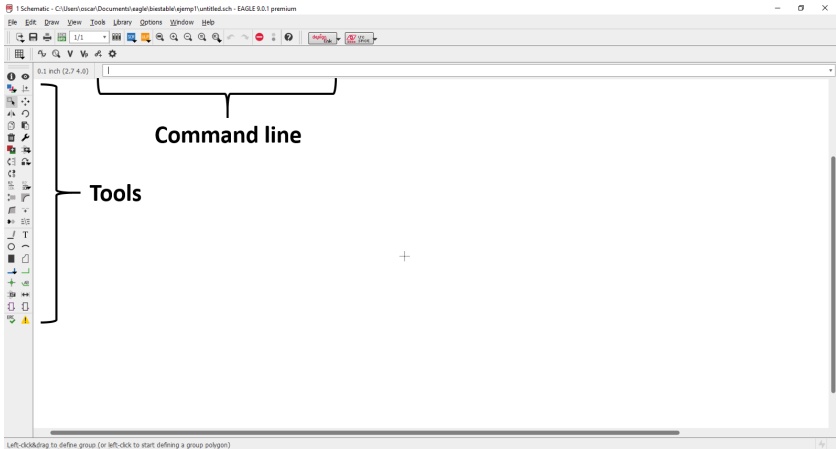


Figura 9: Open project

Create new Schematic project





Basic Tools



Add component form the component list.



Rotate the component in the work space.



Wire to create a line between the component.



Move the component or net.



Mirror or reflect the component.



Name a component or net.



To assign a **Value** of the component.

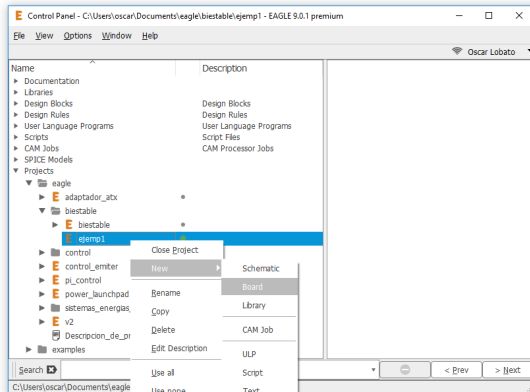


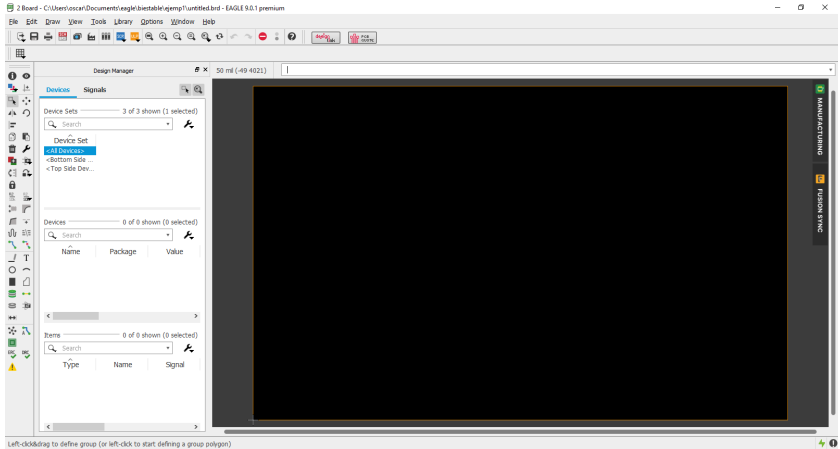
Delete a component or net from the work space.



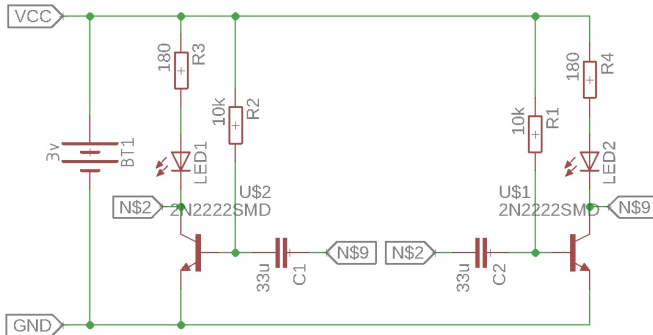
Show a component or net from the design.

Create new **Layout** project





Your project



Packages

For this project use the next packages:

- R_x - 1206
- C_x - 1206
- L_x - 1206
- Q_x - SOT23
- B_1 - 20mm

