

PCB Layout for Astable Multivibrator

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Saurabh Bansode

IIT Bombay

7 August 2019



Learning Objectives

In this tutorial, we will-



Learning Objectives

In this tutorial, we will-

- ▶ **Create a PCB layout for an Astable Multivibrator.**



Learning Objectives

In this tutorial, we will-

- ▶ **Create a PCB layout for an Astable Multivibrator.**
- ▶ **Generate Gerber Files.**



System Requirements

- ▶ **Ubuntu Linux OS version 16.04**



System Requirements

- ▶ **Ubuntu Linux OS version 16.04**
- ▶ **eSim version 1.1.2**



Prerequisite

- ▶ **Create Schematic in eSim.**



Prerequisite

- ▶ **Create Schematic in eSim.**
- ▶ **Assign components to footprints.**



Prerequisite

- ▶ **Create Schematic in eSim.**
- ▶ **Assign components to footprints.**
- ▶ **Set design parameters for PCB layout.**



Prerequisite

- ▶ **Create Schematic in eSim.**
- ▶ **Assign components to footprints.**
- ▶ **Set design parameters for PCB layout.**
- ▶ **<https://spoken-tutorial.org/>**



Earlier in this series

- ▶ **Create Schematic in eSim.**



Earlier in this series

- ▶ **Create Schematic in eSim.**
- ▶ **Map footprints.**



Earlier in this series

- ▶ **Create Schematic in eSim.**
- ▶ **Map footprints.**
- ▶ **Set design parameters for a PCB layout.**



Download Code File

- ▶ **The partially made layout is available in the Code Files link.**
- ▶ **Download and extract this file to your Desktop.**
- ▶ **We will use the downloaded code file to practice the rest of the tutorial.**



Summary

In this tutorial, we learnt to :

- ▶ **Create PCB Layout for Astable Multivibrator.**
- ▶ **Generate Gerber Files.**



Forum to answer questions

- ▶ **Do you have questions in this Spoken Tutorial?**
- ▶ **Choose the minute and second where you have the question.**
- ▶ **Explain your question briefly.**
- ▶ **Someone from the FOSSEE team will answer them. Please visit**

<https://forums.spoken-tutorial.org/>



Forum to answer questions

- ▶ Questions not related to the Spoken Tutorial?
- ▶ Do you have general / technical questions on the Software?
- ▶ Please visit the FOSSEE Forum.
<https://forums.fossee.in/>
- ▶ Choose the Software and post your question.



Lab Migration

- ▶ **The FOSSEE team coordinates to migrate labs that use proprietary software to eSim.**
- ▶ **We give honorarium and certificate to those who do this.**

For more details, please visit this site:

<https://esim.fossee.in/lab-migration-project>



Circuit Simulation Project

- ▶ **The FOSSEE team coordinates convert existing circuit design and simulations into eSim.**
- ▶ **We give honorarium and certificate to those who do this.**

For more details, please visit this site:

<https://esim.fossee.in/circuit-simulation-project>



Acknowledgements

- ▶ **Spoken Tutorial Project is a part of the Talk to a Teacher project.**
- ▶ **It is supported by the National Mission on Education through ICT, MHRD, Government of India.**
- ▶ **More information on this Mission is available at**

<https://spoken-tutorial.org/NMEICT-Intro>



THANK YOU!

For more information, visit our website
<https://fossee.in/>

