

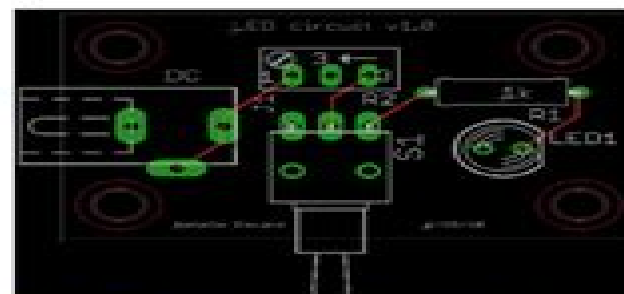
# Lab 5: PCB design with EAGLE

In this lab you will design a PCB board that will replace all the wires and boards you've used in the first two labs.

## 1. Pre-Lab

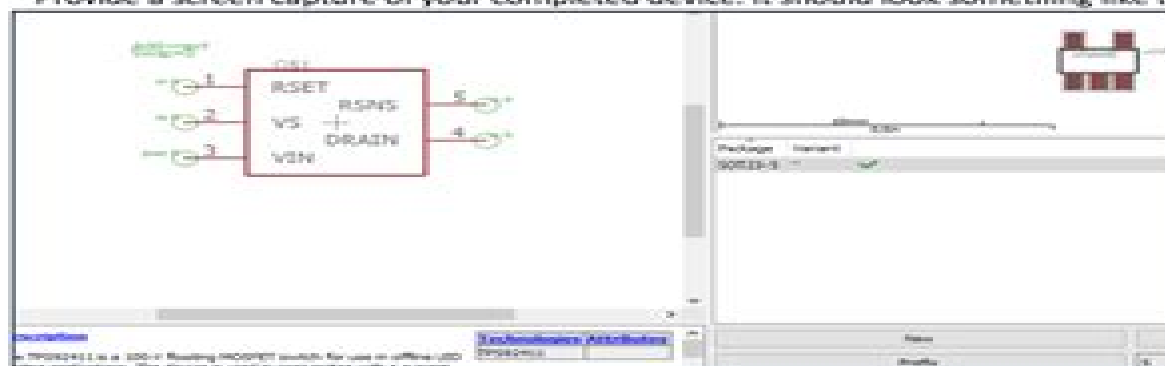
On the website is an EAGLE tutorial. Do it.

- Q1.** Once you've done the tutorial, get a screen capture of your board design. It should look similar to the figure to the right.
- Q2.** Do the following tutorials which cover how to create a device (a package and symbol combined together is a device)



- <https://www.autodesk.com/products/eagle/blog/library-basics-part-1-creating-first-package-autodesk-eagle/>
  - The tutorial is slightly out of date. Minor issues include that the library interface is a bit different (second screen capture) and that layer 21 is grey rather than yellow. Don't forget to save before you move on to the next step. The two below have similar issues, but should be easy to get around.
- <https://www.autodesk.com/products/eagle/blog/library-basics-part-2-creating-first-symbol-autodesk-eagle/>
- <https://www.autodesk.com/products/eagle/blog/library-basics-part-3-creating-first-device-autodesk-eagle/>

Provide a screen capture of your completed device. It should look something like this:



# Pcb Design Lab Manuals

**Shanben Chen,Yuming Zhang,Zhili  
Feng**



## **Pcb Design Lab Manuals:**

*Digital Circuit Design Laboratory Manual, 4th edition (Global)* Akhan Almagambetov, J. Matt Pavlina, Yelena Mukhortova, *ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION* NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab, and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has an aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions, and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with Analog and digital devices, Design of circuits, Instruments, and procedures for electronic test and measurement.

*Laboratory Manual for Microelectronic Circuits* Kenneth C. Smith, Adel S. Sedra, 1991. This manual contains approximately 35 experiments. It follows the organization of the text and includes experiments for all major topics. To help instructors choose and prepare for the experiments, this manual identifies the core experiments all students should perform and includes manufacturers' data sheets for the most common components. *NIOSH Publications Catalog* National Institute for Occupational Safety and Health, National Institute for Occupational Safety and Health. Division of Standards Development and Technology Transfer, 1987. Cumulative catalog of all National Institute for Occupational Safety and Health NIOSH numbered publications, health hazard evaluations, HHE, and technical assistance TA reports, contract reports, and other educational and training materials. **Transactions on Intelligent Welding Manufacturing** Shanben Chen, Yuming Zhang, Zhili Feng, 2019-08-23. The primary aim of this volume is to provide researchers and engineers from both academia and industry with up-to-date coverage of recent advances in the fields of robotic welding, intelligent systems, and automation. It gathers selected papers from the 2018 International Conference on Robotic Welding Intelligence and Automation (RWIA 2018) held Oct 20-22, 2018, in Guangzhou, China. The contributions reveal how intelligentized welding manufacturing (IWM) is becoming an inescapable trend, just as intelligentized robotic welding is becoming a key technology. The volume is divided into four main parts: Intelligent Techniques for Robotic Welding, Sensing in Arc Welding, Processing Modeling, and Intelligent Control of Welding Processing and Intelligent Control and its Applications in Engineering. *Proceedings American Society for Engineering Education. Conference, 1995* ASIC & EDA, 1993 *IEEE Circuits & Devices*, 2000 Electronic Design, 1990 An Engineering 114 Design Project Kyaw Tin, 1995 Proceedings of Frontiers in Education 1996 IEEE, Education Society Staff, IEEE Education Society, 1996-11 Annual Conference Proceedings American Society for

Engineering Education. Conference,1995      *AIAA Space Programs and Technologies Conference* ,1994      **Machine**  
**Design** ,1985      **1993 Applications Reference Manual** Analog Devices, inc,1993      *School Shop* ,1986      **Nuts &**  
**Volts** ,2004      **Industrial Education** ,1987      *PRODUCTS & SERVICES* ,2005      **EDN, Electrical Design News** ,1998

Pcb Design Lab Manuals: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pcb Design Lab Manuals : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Pcb Design Lab Manuals Introduction**

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