

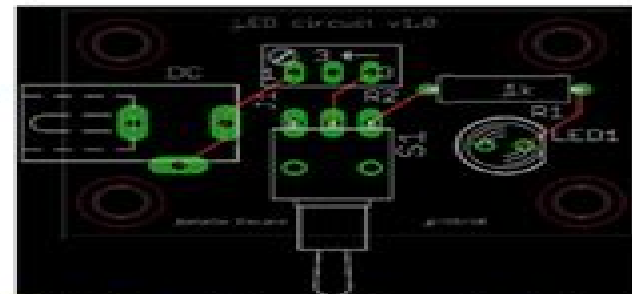
# Lab 5: PCB design with EAGLE

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

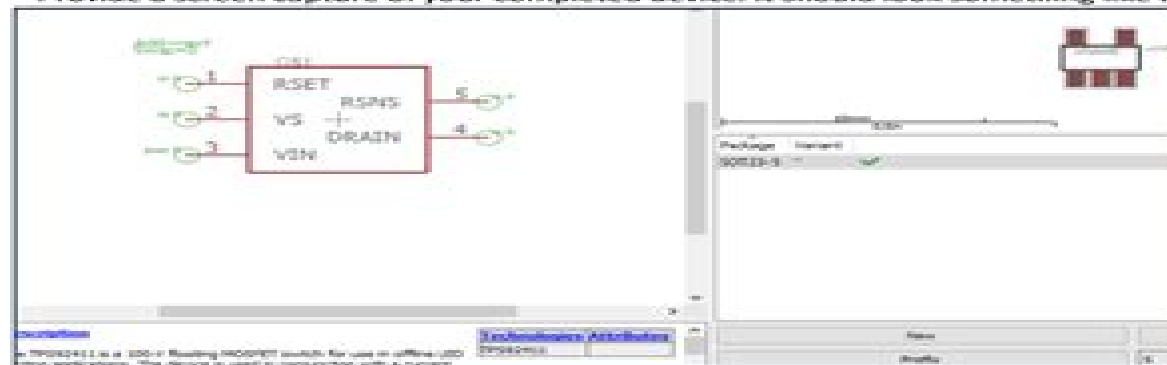
On the website is an EAGLE tutorial. Do it.

- 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  - The tutorial is slightly out of date.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

**Shasha Hu**



## **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

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