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PCB Placement and Routing - OrCAD X Presto PCB Editor

Cadence OrCad PCB Editor 17.4 (Complete board layout in 30 min) - Cadence OrCad PCB Editor 17.4 (Complete board layout in 30 min) by Circuit Analysis 30,485 views 3 years ago 29 minutes - Complete **PCB**, layout tutorial using **Cadence OrCAD**, 17.4 **PCB editor**,. This tutorial contains the following section: 0:00 Intro 0:49 ...

Intro

Schematic

Navigation

Parts: Placing

Parts: Moving

Parts: Rotating

Text: Moving

Text: Size

Board: Outline

Board: Keepin

Board: Origin

Board: Constraints

Traces: Routing

Traces: Unrouting

Unconnected Pins Report

Shapes: Copper Pours

Change Shape Spacing

Change Thermal Spokes

Shapes: Shaping

Shapes: Merging

Shapes: Vertices

Groups: Saving

Groups: Loading

Application Mode

Selection Filters

Troubleshooting Tips

Tutorial OrCAD and Cadence Allegro PCB Editor | 2022 | Step by Step | For Beginners - Tutorial

OrCAD and Cadence Allegro PCB Editor | 2022 | Step by Step | For Beginners by Robert Feranec

155,199 views 1 year ago 1 hour, 57 minutes - After this tutorial you will know how to start **designing**, your own boards in **Cadence OrCAD**, and Allegro 17.4 . For everyone who ...

Introduction

What you will learn

Starting a new project

Creating a component in OrCAD - Header

Drawing a schematic symbol in OrCAD

Adding Part number property to symbol

Creating resistor schematic symbol

Creating LED schematic symbol

Drawing schematic in OrCAD

Creating a through hole pad in Padstack Editor

Creating SMD pad for resistor

Creating SMD pad for LED

Creating a VIA in Padstack Editor

Creating footprints in Allegro

Creating footprint for header

Adding 3D model to footprint in Allegro

Creating LED footprint

Creating Resistor footprint in Allegro

Adding footprint to schematic symbol

Correcting symbol and updating schematic

Annotating schematic in OrCAD

How to fix missing footprint warning in OrCAD

Running DRC (Design Rules Check) in OrCAD

Starting PCB in Allegro

Changing board shape

Placing components into PCB in Allegro

Setting up rules in Allegro

Setting up PCB stackup in Allegro

Routing PCB in Allegro

Editing Schematic and importing the changes into existing PCB

Editing footprint and importing changes into existing PCB

Improving Silkscreen layer - Moving and Adding Text

3D model of our PCB

Creating Views

Checking and fixing errors on PCB in Allegro

Generating outputs for manufacturing

Generating Gerber files

Generating NC Drill file

Printing Assembly Drawing layers into PDF

Printing any combination of layers in Allegro

Generating Pick and Place file

Printing Schematic in OrCAD

Generating BOM (Bill of Material)

Download finished project

Online courses to learn about electronics

Signal Integrity Analysis | OrCAD PCB Designer - Signal Integrity Analysis | OrCAD PCB Designer by Cadence PCB Design and Analysis 3,068 views 1 year ago 1 minute, 25 seconds - Maintaining the signal integrity (SI) of your high-speed **PCB designs**, can be a challenge. Left unchecked, issues like crosstalk, ...

OrCAD X—A New Era in PCB Design has Arrived - OrCAD X—A New Era in PCB Design has Arrived by Cadence PCB Design and Analysis 6,496 views 4 months ago 4 minutes, 7 seconds - OrCAD, X has improved upon legacy capabilities and built an intuitive and compatible layout environment to streamline your ...

Starting with OrCAD and Cadence Allegro PCB - Tutorial for Beginners - Starting with OrCAD and Cadence Allegro PCB - Tutorial for Beginners by Robert Feranec 448,747 views 6 years ago 1 hour, 3 minutes - For everyone who would like to learn how to start with **OrCad**, and **Cadence**, Allegro.

NEW: I updated this tutorial and here is the ...

Introduction: What you are going to learn

Starting a new project

Creating Resistor Symbol

Creating LED Symbol

Creating Connector Symbol

Creating Through hole pad

Creating SMD pad

Creating VIA

Creating Resistor Footprint

Creating Footprint for LED

Creating Connector Footprint

Assign footprints to symbols

Placing components and Drawing Schematic

Annotating Schematic

How to update symbol ans sync schematic

Generating Netlist

Starting New PCB

Placing components in PCB

Creating Board Outline

Setting up Rules

Doing Layout

Adding Text

Moving tracks and placing components on the bottom layer

Working with Layers and Views

How to sync changes in PADs and Footprints with PCB

Adjusting LED Footprint

Checking DRC and Generating Gerbers

Generating Drill File

Printing Layers

Generating BOM, Printing Schematic

Making of PCBs at home, DIY using inexpensive materials - Making of PCBs at home, DIY using inexpensive materials by Pareekshith P 945,026 views 11 years ago 4 minutes, 38 seconds - An easily understandable video demonstration of how to make **PCBs**, (Fabricate) at home with available inexpensive materials ...

Best and Worst PCB Design Software - Best and Worst PCB Design Software by Predictable Designs 48,209 views 1 year ago 59 seconds – play Short - And get your other free guides: From Prototype to Production with the ESP32: <https://predictabledesigns.com/esp32> From Arduino ...

Doing PCB Layout - Learn OrCAD & Cadence Allegro Essentials (Lesson 9) - Doing PCB Layout - Learn OrCAD & Cadence Allegro Essentials (Lesson 9) by Robert Feranec 69,834 views 5 years ago 1 hour, 17 minutes - Would you like to support me in what I do? It's simple: - you will help me a LOT, when you sign up for one of our Schematic and ...

Printed Circuit Board Design : Beginner. Step by step - Printed Circuit Board Design : Beginner. Step by step by TCTEC 423,343 views 6 years ago 26 minutes - Too Easy guide: Using Diptrace to draw a schematic and **design**, a **PCB**,.

Intro

Design the schematic

Finding components

Copying components

Circuit requirements

Net port requirements

Connecting ground

Saving schematic
Previewing 3D models
Adding board points
Adding mounting holes
Drawing tracks
Layers
silkscreen
top silk

Adding a 3D model

Exporting files

From Idea to Schematic to PCB - How to do it easily! - From Idea to Schematic to PCB - How to do it easily! by GreatScott! 1,752,504 views 5 years ago 11 minutes, 5 seconds - In this tutorial I will show you what steps are necessary to turn your idea for an electronics circuit into a schematic and then into a ...

PCB DESIGN FULL TUTORIAL FOR BEGINNERS // TECH PRABU // EXP IN TAMIL - PCB DESIGN FULL TUTORIAL FOR BEGINNERS // TECH PRABU // EXP IN TAMIL by Tech Prabu 71,877 views 5 years ago 34 minutes - FACE BOOK: [www.facebook.com / tech prabu](http://www.facebook.com/techprabu) TWITTER: [www.twitter.com /tech prabu](http://www.twitter.com/techprabu) INSTAGRAM : [www.instagram.com/tech ...](http://www.instagram.com/techprabu)

High Speed PCB Design Rules (Lesson 4 of Advanced PCB Layout Course) - High Speed PCB Design Rules (Lesson 4 of Advanced PCB Layout Course) by Robert Feranec 207,634 views 9 years ago 56 minutes - 5 most common High Speed **Design**, rules. Find the complete course at: <http://www.fedével.com/academy>.

11 Most Common High Speed Design Rules 1. Maintain Single Ended and Differential pair impedance

Differential pair routing

WAVES

Parallel routing

Introduction to Basic Concepts in PCB Design - Introduction to Basic Concepts in PCB Design by Robert Cox 204,701 views 5 years ago 25 minutes - All right we're gonna introduce you guys to some basic concepts in **PCB design**, so for a lot of you this will be the first time that ...

Which PCB Design Software is The Best? The Top 4 Are ... - Which PCB Design Software is The Best? The Top 4 Are ... by Robert Feranec 63,667 views 3 years ago 24 minutes - Which is your favorite **PCB**, CAD Tool? Is it Altium? **Cadence**,? KiCad? Mentor? Or something else? Write your comment, what is ...

How to install OrCAD PSpice 9.2 on Windows | COA Lab experiment | Circuit Diagram | Simulation - How to install OrCAD PSpice 9.2 on Windows | COA Lab experiment | Circuit Diagram | Simulation by C 4 Yourself 37,857 views 3 years ago 22 minutes - ,)+% | #/--%.4 | 3(1226 | 35"3#2) %Aboulah# video ...

Design Reuse | OrCAD PCB Designer - Design Reuse | OrCAD PCB Designer by Cadence PCB Design and Analysis 789 views 1 year ago 1 minute, 41 seconds - With **OrCAD**,, it's easy to reuse past **designs**, to ensure productivity, minimize **design**, errors and get to market with verified ...

Contour Arc Routing | OrCAD PCB Designer - Contour Arc Routing | OrCAD PCB Designer by Cadence PCB Design and Analysis 1,337 views 4 years ago 1 minute, 12 seconds - Confidently and accurately route though any **design**, with ease improving your productivity. Draw evenly spaced curved traces at ...

Cadence OrCad PCB Editor 17.4 (Creating Custom Footprints) - Cadence OrCad PCB Editor 17.4 (Creating Custom Footprints) by Circuit Analysis 25,778 views 3 years ago 35 minutes - Explore the process of making a custom **PCB**, footprint in the **Cadence OrCAD**, 17.4 **PCB editor**,. This tutorial contains the following ...

Intro

Create/Modify Symbol

Creating Pads (PadStack)

Through Hole Pad

Surface Mount Pad

Creating Footprint

Footprint Properties

Link Footprint to Symbol

Correcting Symbol Error

Ultra Librarian - Download Parts

Ultra Librarian - Install Footprint

Ultra Librarian - Install Symbol

Ultra Librarian - Place Symbol & Footprint

OrCAD Simple PCB Design Tutorial 17.4 - OrCAD Simple PCB Design Tutorial 17.4 by parsysEDA
34,524 views 2 years ago 47 minutes - Here we explore a very simple **PCB design**, tutorial overview using **OrCAD**, Capture and **PCB Editor**,. We go from start to finish to ...

Intro

Start Page

Place Parts

Amplifier

Power Symbols

PCB Properties

Resources

PCB Footprint

Part Names

PCB Footprints

NC for NonConnected Pins

Setup Design Parameters

Withdrawing a Board

Editing Modes

Placement Mode

Placement Bin

Placing Components

Cross probing

Add bypass resistor

Sync

Rotate

Dynamic Alignment

PlaceBound Top

Colours

Net Rules

Setup Constraints

Rooting

Edge Edit Mode

Shape Z Copy

Step Models

Place Search Providers

Coupling Analysis | OrCAD PCB Designer - Coupling Analysis | OrCAD PCB Designer by Cadence
PCB Design and Analysis 1,102 views 5 years ago 1 minute, 47 seconds - In a dense **PCB**., signals are routed very close to each other, which might cause coupling issues. You can manually increase the ...

Complete PCB Design Course in OrCAD and Allegro 17.4 | OrCAD & Allegro PCB Design by LtlBiTech - Complete PCB Design Course in OrCAD and Allegro 17.4 | OrCAD & Allegro PCB Design by LtlBiTech by LtlBiTech 3,021 views 1 month ago 9 hours, 2 minutes - Welcome to our comprehensive **PCB design**, course! Join us on a journey through **OrCAD**, & Allegro 17.4 as we delve into the ...

Fanouts & Vias | OrCAD PCB Designer - Fanouts & Vias | OrCAD PCB Designer by Cadence
PCB Design and Analysis 2,025 views 1 year ago 1 minute, 43 seconds - The repetitive nature of BGA and other high pin-count device fanouts is perfect for time-saving automation to make you more ...

Using Auto Connect When Routing | Allegro PCB Designer - Using Auto Connect When Routing | Allegro PCB Designer by Cadence
PCB Design and Analysis 4,362 views 1 year ago 55 seconds - With auto connect you can simply window select a set of nets and connect the pins of your components. Learn more about Allegro: ...

Documentation Editor | OrCAD PCB Designer - Documentation Editor | OrCAD PCB Designer by Cadence
PCB Design and Analysis 957 views 4 years ago 2 minutes - Utilize the documentation **editor**, to efficiently document your **design**, process and track versions. Incomplete documentation will ...

Cadence OrCAD PCB Design How to Set Trace Impedance (Signal Integrity) - Cadence OrCAD
PCB Design How to Set Trace Impedance (Signal Integrity) by Tech Ed Kirsch (TEK) 3,060 views

1 year ago 6 minutes, 39 seconds - NEW Methodical Method to Hardware & **PCB Design**, -
<https://academy.hasofu.com/course/pcb,-design,-process-10phase-method> ...
Cadence OrCAD Tutorial - How to generate PCB (board) in OrCAD 17.4 - Cadence OrCAD Tutorial
- How to generate PCB (board) in OrCAD 17.4 by Tech Ed Kirsch (TEK) 8,174 views 3 years ago
1 minute, 41 seconds - Would you like to learn more about **OrCAD**, / Allegro / PSpice? Check out
<https://academy.hasofu.com/free-tutorials/>. Or if you have ...
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