



Introduction to Printed Circuit Board Design

Hosted by W0EEE, Missouri S&T
Amateur Radio Club



Introductions

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There will be technology

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Lecture recordings if the stars align

Course Topics

Week 1: Introduction and course overview.

Week 2: Electronics review. Circuits 1, Circuits 2, Electronics I, and Electronics II in an hour

Week 3: EDA software options and development setup

Week 4: Circuit Design, datasheets galore, understanding recommended topology

Course Topics Continued...

Week 5: Circuit Simulation. Spice. Netlists. Fun graphs.

Week 6: PCB fabrication methods, limitations, cost factors

Week 7: What layout is all about, high speed vs low speed, layer selections

Week 8: Net classes, design rules

Week 9: Enough garbage, let's lay out a board

Week 10: What in tarnation is a gerber? Production files and BOM making 101.

Week 11: Assembly methods, production vs prototyping, surface mount soldering techniques

Week 12: Finding the problems: A brief overview of debugging.

Prior Knowledge

SURVEY:

<http://bit.ly/2n8orhk>

Personal Project

- Anything you want
- Pick something reasonable
- Follow along throughout the process
- Ask questions

If you're confused it's your own fault...

I DON'T UNDERSTAND

ANY OF THIS

memegenerator.net

Questions?
