

Rhodes Hileman

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PCB DESIGNER

Printed circuit board designer using PADS PCB since 1986, doing through-hole and fine pitch SMT. Worked on video-rate analog circuits, and high-speed digital designs. Design requirements have included length matching, impedance reduction, noise immunity, and mechanical considerations. Two to eighteen layer PCBs. Supervised fabrication and assembly of designs. Created a mechanical design of a digital camera coordinated with five PCB designs. Familiar with IPC standards, solder joint inspection and testing, and reflow oven temperature curves.

Products:

- High resolution, high fidelity color camera -
 - First design: Seven PCBs. Through-hole.
 - Second design: Five PCBs and design of piezo-microstage and camera.
- DSP/FPGA computing development system, ISA bus host. Through-hole.
- Modular FPGA computing development system, VL bus host, SMT & thru-hole.
- FPGA computing modules. SMT only.
- Supervise and co-design PCI bus host. Mostly SMT.
- Neural-net module. SMT only.
- SCSI port module. SMT with some fine-pitch through-hole.
- VME bus boards up to 18 layers, fine-pitch, SMT.

Companies (employers and clients):

- Array Technologies Inc., 1986-1991, 12 PCBs, 1 mech design.
- Gigaoperations Corp., 1991-1997, 6 PCBs.
- Neuroptics Technologies Inc., 1997, 1 PCB.
- InterScience Inc., 1997, 1 PCB.
- Integracion Tecnologica General, S.A. de C.V., 2 PCB revisions.
- UltraCAD Design Inc., 1998, dozens of PCBs done as part of a team.

Software:

- Schema 3.33 - a schematic editor
- PADS PCB 6 (Schema PCB-2000) - a printed circuit board design system
- Lavenir View386+ - a Gerber photoplot editor
- Autocad - mechanical drafting system.
- Cadnetix - printed circuit board design system, Unix-based, from Intergraph.
- For complete list see <http://www.smsys.com/resumes/software.html>

Education:

- Antioch College, Yellow Springs, Ohio. *B.A. Degree in Bioregional Design*
- North Seattle Community College, Seattle, Washington *Unix, Bash, Perl, Java, Cisco*

Published material:

- Choosing a Display Card for OS/2 and Linux*, Extended Attributes, the magazine of the OS/2 community, February 1999, Phoenix, AZ. See ftp.smsys.com/pub/vidchips.99
- Forests are a Community*, Forest Trust Quarterly Report, October 1999, Santa Fe, NM.