

INTRODUCTION:

I am an R&D design manager/engineer.

My design teams have had many design wins in numerous large companies. My designs have been produced by: Sony, Samsung, DynaColor, Clinton Electronics, ElectroCom Automation, Ascension Technology, Sampo, Hitachi, Hyundi, Lucky Gold Star, Capetronics, Display Tech., HP, AT&T, CPT, NBI, NCR, Apple, Athenix, Sigma Designs, Florida Computer Graphics, Data Ray, Ball Electronic Systems, Vultron and more.

Like many engineers I do ASIC and digital design but enjoy the 'little-known' fields of electronics. Few engineers will admit to using relay logic, tube amplifiers or (my real love) analog design---I know more than how to spell RF!

My home lab is fully equipped with oscilloscopes, power supplies, signal generators, spectrum analyzer, metal fabrication tools, etc. The in-house network is equipped with CAD, SPICE, ASIC design tools, firmware development tools and PCB layout software.

Management Philosophy:

I have found that my workers do best when I do not manage. My goal is to know when to get out of the way of progress.

I have a passion for teaching and learning. I have conducted classes in a number of different companies. Teaching should be done in a variety of learning styles, when possible, by asking questions.

Most incentive programs backfire. Those that do work, move the average worker to good. The great workers never need incentives, they need freedom to be great.

Many managers spend their time with the underachievers when they should be with the top producers. If a manager could double the productivity of the bottom 20% no one would notice. If a manager could double the productivity of the top 20% no one would recognize the same company.

A strong company must recognize the underlying ideas in ISO. I employ engineers to guarantee ISO compliance, then I turn around and look for loopholes.

My goal is to make, or get back into a group where we enjoy being together, reaching or exceeding our goals. Where we make a difference. Where at the end of the day we can sincerely say "I did the neatest thing today." Any thing shy of that is just a job.

As a manager I make rules and I promptly break them. What's worse I encourage others to very carefully break a rule or two.



Ron Simpson

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EMPLOYMENT

- 3-00 to 7-04 Data Ray Corporation, Westminster, CO. New Development Manager
Duties: Manage R&D, Engineering, Manufacturing Engineering, Component Engineering and Drafting.
Advise: Repair Technicians, Quality and Agency departments.
Move Data Ray Corp. into new technology fields and develop new products. Procure off shore production.
- 8-86 to 3-00 Display Laboratories Inc., Boulder, CO. Principle Engineer
Duties: develop ASICs, prototype with FPGAs, consult on designs, train engineers, develop high resolution CRT displays, machine vision systems and switching power supplies. Write manuals for engineering classes. Display Labs. was a consulting design house that specialized in new product development and training.
- 12-85 to 7-86 Ball Electronic Systems Division, Broomfield/Boulder, CO. Project Engineer
Duties: develop high resolution CRT displays, train engineers.
Mentoring for junior engineers.
- 9-82 to 12-85 Data Ray Corporation, Westminster, CO. Senior Engineer
Duties: design high resolution CRT displays, including video amplifiers, deflection boards and switching power supplies.
- 9-80 to 7-82 Vultron Inc. Research and Development, Royal Oak, Mi. Engineer
Duties: microprocessor design, digital (CMOS and TTL), power supplies, computerized automotive accessories, LED advertising sign, develop assembly line test fixtures, maintain automated production equipment. Project problem solving.
- 6-76 to 7-80 KUCV-fm, Lincoln, NE Chief Engineer
Duties: build new stations, prepare F.C.C. documents, file new station applications, old station major modification applications, maintain and install transmitter and studio equipment, purchase new products, and assist fellow network stations.
- 7-78 to 6-79 KFOR-am KFRX-fm Lincoln, NE Broadcast Engineer
Duties: maintain and modify computer automated broadcast equipment, repair transmitters.
- 10-78 to 6-79 Intelligent Systems and Robotics, Lincoln, NE Contract Engineer
Designed: modem, power supply, miniature transmitter and receiver.

EDUCATION

- 80 to 81 Oakland Community College, Pontiac, MI
Microprocessor Technology
- 76 to 80 Union College, Lincoln, NE
Electronic Technology/Computer
- 78 to 80 Southeast Community College, Lincoln, NE
Electronics Technology
- 77 to 79 University of Nebraska, Lincoln, NE
Electrical Engineering/Communications
- 74 to 76 Canadian Union College, Lacombe, Alberta, Canada
Physics/Chemistry

AFFILIATIONS

Institute of Electrical and Electronics Engineers
Society for Information Display
Federal Communications Commission Restricted Radiotelephone Operator Permit
Federal Communications Commission General Radiotelephone Operator License (First Class Radiotelephone)

PUBLICATIONS

“Digital Zone Control for Geometry, Convergence, and Uniformity Correction”
Society For Information Display International Symposium Digest of Technical Papers, Volume XXIX, May 1998

“Digital Zone Control for Geometry, Convergence, and Uniformity Correction”
Society for Information Display (SID) 1998

"Dynamic Digital Convergence for CRT-Based Display Monitors"
Society for Information Display (SID) 1996

“Dynamic Digital Convergence for CRT-Based Display Monitors”
Society For Information Display International Symposium Digest of Technical Papers, Volume XXVII, May 1996

“A17” Digital Monitor Designed for Production Automation”
Society for Information Display (SID) 1994

"Simple Probe Aids Dynamic Saturation Voltage Measurements"
Power Conversion & Intelligent Motion (P.C.I.M.) Sept. 1991

PATENTS

6437829 Alignment of cathode ray tube displays using a video graphics controller 8-20-2002 Webb Simpson
6285397 Alignment of cathode ray tube video displays using a host computer processor 9-4-2001 Webb, Simpson
6281950 High speed digital zone control 8-28-2001 Webb, Simpson
6130505 Automatic Alignment of Cathode Ray Tube Display in Local Magnetic Fields 10-10-2000 Webb, Simpson
6052146 Alignment of a Video Monitor Using an On-Screen Display Chip and a Gain Matrix Table 4-18-2000 Webb, Simpson
6014168 Screen Mapping of a Cathode Ray Tube 1-11-2000 Webb, Simpson
5969486 Detecting Horizontal Blanking Time in Cathode Ray Tube Devices 10-19-1999 Webb, Simpson
5896170 Dynamic Alignment of Cathode Ray Tube Rasters 4-20-1999 Webb, Simpson
5831398 Method and Circuit for Adjusting Horizontal Video Size Using a Microcomputer 11-3-98
5825414 Method and Apparatus for Making Corrections in a Video Monitor During Horizontal Scan continuation in part 10-20-1998 Webb, Lassman, Simpson
5739870 Math Engine for Generating Font Gradients 4-14-1998 Simpson
5504521 Method and Apparatus for Making Corrections in a Video Monitor During Horizontal Scan 6-13-1994 Webb, Lassman, Simpson
5216504 Automatic Precision Video Monitor Alignment System 6-1-1993 Webb, Simpson, Pogoda

DESIGN CONTESTS

Winner 1990 Power Integration Inc. & P.C.I.M.; Power design contest.
Winner 1990 Integrated Device Technology Inc.; Four port RAM design contest.