# Robert Woodworth

Wilmington, DE  -  Email me on Indeed: indeed.com/r/Robert-Woodworth/6179eeb318b11152

Authorized to work in the US for any employer

WORK EXPERIENCE

**Electrical Engineer**
(see experience summary below)

Objective:

Contract work in electronic hardware and/or software development.
On or offsite location. Payment scheduling per hour or per milestone success

Summary:

Proven adopter of new technologies. 38 years experience of electronic digital and analog circuit design and manufacturing. Over 10 years as an independent consultant, providing complete design capability including PCB layout and mechanical packaging. 27 years experience of embedded and personal computer software programming. Managing experience of engineering and drafting design groups includes parts purchasing, manufacturing support, government regulatory approvals and outside contractor interfacing.

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Employers and/or customers

T-Metrics Inc. Moorpark, CA

Hardware and software design of telecommunication and telephony equipment including standalone, ISA and USB based PC products.

Transtream Inc. Simi Valley, CA

Management and hardware design of data communication equipment. Embedded software management including integration of purchased communication protocol routines.

Hanson Research Corp. Chatsworth, CA

Hardware and embedded software design for laboratory equipment. Included sensor and motor control interfaces.

Clareblend Inc. Reno, NV

Hardware design of beauty products included battery powered designs.

Teleprocessing Products Inc. Simi Valley, CA

Hardware, PC software, and embedded software of customer premise and telco central office data communication equipment.

Dracon Industries Oxnard, CA

Hardware design of telephone and PBX systems.

Dimetrics Inc. Northridge, CA

Customer specific modifications of welding controllers.

Foxboro Corp. Valencia, CA

Designed QA testing equipment for industrial control products.

Elite Engineering Newbury Park, CA

Robotic and Medical equipment hardware designs.

Pacific Amplifier Inc.

PCB design for RF power amplifiers

Vishay Inc. Reseda, CA

QA testing equipment for capacitors manufacturing.

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Skills Used:

• SPICE simulation for Analog circuitry
• Microsoft Windows C and C++ Visual Studio programming
• Embedded 8085, Z80, 6500, 68000 processor coding
With real time latency experience
• Semi-custom Bipolar analog tile arrays
• Semi-custom CMOS digital gate arrays
• Altera and Xilinx CPLD (FPGA) design
• Texas Instrument 6000 and 5000 series DSP hardware design
• Power Supply design including various switching topologies
• Stepper and DC motor control interfaces
• ISDN, DS1, DS0, USB, ETHERNET interfaces
• FCC part 15 and part 68 approvals
• Bell Labs, BellCore, UL and CSA approvals
• Autocad software proficient
• Cadstar printed circuit board software proficient
With high speed signal integrity experience
• Schema, Orcad, Tango schematic capture software experience
• Excel spreadsheet proficient

• Gerber PCB photo plot editing experience

EDUCATION

**Bachelor's in Electrical Engineering**
University of Delaware - Newark, DE
1972 to 1976

SKILLS

(see summary above)

CERTIFICATIONS

**PE (expired)**
November 1985 to November 2002
California #12074