

Jan. 9, 1985

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Employment Objectives

- Design of computer related systems, instrumentation or test equipment.

Education

- Bachelor of Science in Physics, June 1983, UC San Diego.
- Minor in Electrical Engineering, specializing in optics.
- Minor in Mathematics.

Awards and Honors

- Graduated Cum Laude, UCSD (GPA 3.8).
- Provosts Honors fourteen of sixteen quarters at UCSD.
- National Merit Scholarship finalist, 1977.
- Graduate Record Exam results: 98th percentile quantitative, 97th verbal, 95th analytical, 80th physics.

Programming Languages

- C, Pascal, Basic, Assembler (6800, LSI-11, custom)

Technical Experience

August 1983 - January 1985: Project Manager. Data/Ware Development Inc., San Diego, Ca.

Hired on to help in design of computer related test equipment. Promoted to Project Manager after three months. Responsible for taking project from initial design through to production. As well as designing I also managed other engineers, programmers and technicians. Also participated in customer service and marketing effort.

- Hardware involved bit-slice architecture (AMD 2901 and 2910), high speed MSI and LSI circuitry, Programmable Array logic, packaging and circuit board layout.
- Software design included C language programming for host microcomputer, design of two assembly languages, microcoding of I/O protocol, and design of an operating system.
- Management duties included supervising two engineers and a technician, assigning goals and seeing that they were met, scheduling, writing progress reports, organizing test procedures and working closely with production, purchasing and marketing departments.

September 1981 - August 1983: Jr. Developmental Engineer. Scripps Institute of Oceanography/ Institute of Geophysics and Planetary Physics, La Jolla, Ca.

Began work as a student technician fabricating electronics for geophysical instrumentation, later promoted to Engineer. Duties included design of analog circuits for signal conditioning and processing. Design of digital circuits for calibration and support equipment. Maintained and repaired geophysical instruments at remote field station/observatory. Instruments include long baseline laser interferometer, fluid tiltmeter, and seismometers. Design and construction of support equipment for absolute gravity meter. Ordering parts and materials for projects at lab and observatory. Routine metal work on drill press, sheet metal tools, lathe and mill. Mechanical drawings for fabrication of small parts.

Winter 1982/3: UCSD Physics department. Course in experimental methods. Designed and built a microprocessor controlled laser system that would locate a sensor by triangulation and display its position on an oscilloscope.

March 1981 - September 1981: Student Technician. Power Conversion Technology, San Diego, Ca.

Built equipment and carried out experiments in the development of a solid-state heat engine. Built instruments for testing thermal and electrical characteristics of engine. Individually developed experiments to determine optimal heat transfer fluid.

Summer 1980: Technician. Astral Projections, San Diego, Ca. Built control panels and projection equipment for light show. Participated in design of laser projection (x-y deflectors, diffraction gratings, etc.) system. Designed sound proofing for kaleidoscope projectors.

Personal Comments

I am an enthusiastic worker who picks up new material quickly. I enjoy design work, particularly when it involves finding elegant, functional and aesthetic solutions to technical problems. I am interested in computers (particularly AI and parallel processing), lasers, optics and instrumentation, but by no means am I limited to those fields and am eager to expose myself to new challenges.