

Alfred P. Bridgman

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OBJECTIVE: Director of Research and Development

SUMMARY OF QUALIFICATIONS

- Over 18 years successful experience in mechanical engineering design and development
- Management and supervisory experience
- Developed microprocessor controller
- Developed ultra-violet lamps to cure newly developed chemical formulations of polymer coating as well as analysis of rheology

PROFESSIONAL EXPERIENCE

Director of Research and Development Penz Technology, Cerritos, CA 1994-Present

- Engineered, designed, tested, evaluated and marketed next generation lens coatings machinery.
- Managed a staff of 45 engineers, researchers, consultants and assemblers.

Design Engineer Measurement Design Inc., Fresno, CA 1990-1994

- Engineered, designed, tested and evaluated projects in the fields of electronics, precision mechanical assemblies and computer technology including engineering design, drafting (Autocad-Orcad), debugging mechanical and electronic (Analog/Digital) prototype units, and writing operation evaluations results
- Designed and developed:
 - Adhesion, friction, creep, resistance, ion and thickness test machines and equipment controls
 - Microscope and electron microscope (SEM-TEM), X-ray analysis, atomic absorption, secondary ion mass spectroscopy.
 - Electron Probe micro analysis
 - Sample preparation analysis for material composition

Electronic Design Engineer Measurement Design Inc., Fresno, CA 1985-1990

- Designed electro-mechanical digital control valves and solid state temperature flow and pressure transducers and switches
- Processed semiconductor devices. Prepared and selected mask wafers.
- Engineered and developed prototype breadboarding (electronic and mechanical). Developed new evaluation and testing procedures for oil well blowout preventers.

EDUCATION

B.S.M.E. University of Southern California

B.S.E.E. University of California, Berkeley

State of California Certification – Number 4453, Satellite Earth Station Engineer