LEONARD DAVIDIAN

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# OBJECTIVE

Seeking a challenging Mechanical Engineering position to apply my knowledge and skills in the fields of Fluid Flow, Heat Transfer and Stress Analysis.

# SUMMARY OF QUALIFICATIONS

♦ Seven years experience in the field of Mechanical Engineering Design and Stress Analysis.

♦ Educational background in the fields of Fluid Mechanics, Heat Transfer, Stress Analysis, Machine Design,

* Acoustics, and Applied Mathematics.

♦ Educational background in the fields of Hydraulics, Hydrology, Water Resources Engineering and Soil Mechanics.

♦ Skilled in mechanical drafting: both manual and CAD.

♦ Knowledge of BASIC, FORTRAN programming and Microsoft Windows applications.

♦ An analytical and results oriented individual, with emphasize on team productivity and group support.

# EXPERIENCE

♦ As an Engineering Aid provided Stream Flow information to Consultants, Engineers and Scientists. Calculated inflows to 15 Dams owned by County of Los Angeles. Organized hard copies of the data for public use. Prepared ArcView GIS files for different drainage areas. Learned LA County’s Modified Rational Hydrology method.

♦ Consulting engineer responsible for training of several engineers from China and South Korea at Thermal Engineering International (Senior Engineering Company). Subjects included heat transfer and structural design of surface condensers, tube vibration analysis, seismic and foundation design, deaeration analysis, and material selection. Engineering consultant with TEI’s project engineering department.

♦ As a project engineer analyzed and designed conveyor belt type paint drying oven for heat transfer and energy consumption.

♦ Continued graduate level education beyond Master of Science Degree. Researched in the field of Turbulent Fluid Flows and analyzed a new mixing length model for round and two-dimensional jets.

♦ Project engineer responsible for design of pressure, force and torque transducers. Responsibilities included stress analysis and completion of mechanical drawings.

♦ Design engineer responsible for mechanical design of specialized lifting hooks and associated attachments capable of carrying 100 tons load for super heavy applications.

♦ Design engineer in charge of design and drafting of high strength clamps for the aerospace industry. Responsible for conformance to customer specification and special conditions.

♦ Research Assistant responsible for design and model testing of perforated pipes for special applications in the electric power industry.

# EMPLOYMENT

2001-2005 **Engineering Aid**, Los Angeles County Department of Public Works, Alhambra, CA

1996 -1999 **Engineering** **Consultant,** Thermal Engineering International, Los Angeles, CA

1994-1996 **Project Coordinator**, GB Architects and Engineers, Glendale, CA

1992-1993 **Production Assistant,** Oliver Williams Elevator, Los Angeles, CA

1990-1992 **Engineering** **Consultant,** Wastech Engineering, Los Angeles, CA

1987-1989 **Research Assistant,** University of California, Los Angeles, CA

1985-1986 **Design Engineer,** West Coast Research Company, Santa Monica, CA

1983-1984 **Design Engineer,** National Utilities Corporation, Monrovia, CA

1982 **Research Assistant,** Southwestern Engineering Co., Los Angeles, CA

# EDUCATIONAL BACKGROUND

**California State University, Los Angeles - *M.S., Civil Engineering,*** June 2006

**University of California, Los Angeles** - ***M.S., Mechanical Engineering,*** 1983

**University of Southern California** - ***B.S., Mechanical Engineering,*** 1980