

ENGINEER: MECHANICAL

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EDUCATION:

2006 M.S., Mechanical Engineering
Concentration: Precision Machine Design
San Jose State University, San Jose, California

2001 B.S., Mechanical Engineering
Concentration: Mechanical Design
San Jose State University, San Jose, California

EXPERIENCE:

June 2016 **Engineering Design & Testing Corp.**
to Present **Concord, California**

Consulting Engineer. Specialized consulting in the areas of mechanical systems, finite element analysis, fracture mechanics, and machine design. Root cause investigation and analysis of mechanical damage to equipment, components, and materials, including fracture analysis and failure analysis. Preparation of repair and replace cost estimates. Investigation of incidents involving residential, industrial and commercial systems. Damage evaluation and assessment.

April 2002 **Aptech Engineering Services, Inc. (Intertek)**
to May 2016 **Sunnyvale, California**

Consulting Engineer. Engineering services for the power, oil and gas industries. Piping design and analysis, fatigue and fracture mechanics, welding residual stress analysis, finite element analysis, ASME boiler and pressure vessel code, API 579/ASME fitness for service assessments, software programming, and various project management roles. Management of nuclear engineering quality control and pulsed eddy current technique and services expert.

February 2001 **Smart Products Inc.**
to November 2001 **San Jose, California**

Mechanical Engineer/Quality Control Manager. Management of quality department overseeing the production of precision injection molded valves used in a variety of devices from surgical lasers to soda machines. Custom precision valve spring design, CNC machining and programming, CAD component design and training, and clean room design.

CONTINUING EDUCATION:

Fracture Mechanics Approach to Life Predictions, Las Vegas, NV, 2013

Flow Accelerated Corrosion, Charlotte, NC, 2011

ASM Principles of Failure Analysis - Online Course (2016)

OSHA Confined Space Training – Online Course (2016)

Magnetic Particle Inspection, Intertek, Santa Clara CA, 2016

Dye Penetrant Inspection, Intertek, Santa Clara CA, 2016

ANSYS Finite Element Analysis, Ozen Engineering Inc., Sunnyvale CA, 2006

Pulsed Eddy Current Training, A-Plus RTD, Houston TX, 2010

Niton X-Ray Florescence Analysis, ThermoFisher Scientific, Oakland CA, 2003

PUBLICATIONS:

Optimization of NDE Reexamination Locations and Intervals for Grade 91 Piping System Girth Welds, ASME paper PVP2015-45630, July 2015

Detection of Incipient SCC Damage in Primary Loop Piping Using Fiber Optic Strain Gages, EPRI report 3002003219, June 2014

Evaluation of the Pulsed Eddy Current Inspection Technique Known as the Through-Fin Inspection System for Heat Recovery Steam Generators (T-FISH) as Applicable to Power Plants, EPRI report 1018987, December 2009

PRESENTATIONS:

Example Use of Failure Assessment and Tolerable Diagrams in the Evaluation of Components Containing Crack-like Flaws, MS&T Conference, Pittsburgh, PA, October 2017

Pulsed Eddy Current Non-Destructive Testing for FAC, Fossil FAC International Conference, Washington, D.C., March 2013

Pulsed Eddy Current Non-Destructive Testing for FAC and General Area Wall Loss, IPEIA Conference, Banff, Alberta, Canada, February 2014

Pulsed Eddy Current Examination and Application, The Siam Group, Kanchanaburi, Thailand, February 2013

Pulsed Eddy Current - Webinar Series, Intertek-APTECH, Sunnyvale, CA, 2010-2016

PROFESSIONAL ORGANIZATIONS:

American Society of Mechanical Engineers (ASME)
Design and Analysis Fracture Mechanics 2014 Session Chairman, ASME PVP Conference
American Society for Metals International (ASM)
Failure Analysis Society (FAS)
National Fire Protection Association (NFPA)
National Association of Fire Investigators (NAFI)
Society of Naval Architects and Marine Engineers (SNAME)
Professional Aviation Maintenance Association (PAMA)
SAE International (SAE)

REGISTRATIONS and CERTIFICATIONS:

Registered Professional Engineer in Alberta (#235929)
Registered Professional Engineer in California (#36096)
Registered Professional Engineer in Texas (#118062)
Registered Professional Engineer in Oregon (#91546)
Registered Professional Engineer in Arizona (#62906)
Registered Professional Engineer in Hawaii (#17179)
Registered Professional Engineer in Nevada (#024310)
Registered Professional Engineer in Colorado (#0052085)
National Council of Examiners for Engineering and Surveying Record (#57459)
Certified Fire and Explosion Investigator (CFEI #21589-12250)

Pulsed Eddy Current
Liquid Dye Penetrant
Niton X-Ray Fluorescence Analyzer

Magnetic Particle
Private Pilot - Airplane Single-Engine Land