

Yuval Doron

Education

Texas A&M University, College Station, TX

December 2009

Master of Science (Thesis), Mechanical Engineering

Experiments in single and multimode initial conditions in a Rayleigh-Taylor mixing. Funded by Los Alamos National Lab.

Projects

- Complete thermodynamic computation of a 18 MW cogeneration plant.
- Complete thermodynamic and aerothermo analysis and 3-D CAD design of a turbocharger.

University Of Texas at Austin, Austin, TX

December 2008

Bachelor of Science, Mechanical Engineering

Projects

- Design and fabrication of pipe flow visualization apparatus.
- Complete analysis of a failing gas turbine vane seal support.

Formal Military Education

1200 lbs steam power school, Great Lakes, IL

1991

Electro-hydraulic machinery, Treasure Island, CA

1994

Employment

Director of Operations, *Domatex Inc*, Houston Texas

2004-2008

- Increased sales by 73% over a four year period, from \$2.6 million to \$4.5 million annual sales .
- Reduced production hours by over 10% per product by utilizing precise fabrication methodologies.
- Developed Excel sheets to evaluate labor and material costs leading to 15% higher product profitability.
- Directed and supervised operations, sales, customer service, maintenance, design and development; prepared purchase orders, quotations, and invoices.
- Supervised all fabrication projects.
- Trained, supervised and evaluated 47 shop employees in a 40,000 square foot fabrication facility.
- Employee retention held at 72%.
- Enforced strict common sense safety regulations.
- Wrote and introduced new written welding procedures.
- Decreased purchasing costs of raw materials by 5% by implementing more accurate design.
- Introduced design methodology utilizing accurate 3-D CAD modeling.
- Increased customer satisfaction through the increase of on-time delivery.
- Increased profits by over 10% annually.
- Modeled and designed complex products with Solidworks, and performed static failure analysis using Cosmos.
- Designed original equipment to include: ♦ 10 ft wide by 54 ft long steam generator trailer ♦ Trailer to carry 160,000 lbs oil equipment ♦ 4000 gallon gel mixing trailer.

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- Fluids Lab Manager**, *UT Mechanical Engineering Department, Austin, TX* **2002-2004**
- Prepared and tested lab equipment to include 12" and 24" wind tunnel experiments.
 - Fabricated pipe flow visualization tables.
- Machinist**, *UT Mechanical Engineering Department, Austin, TX* **2001**
- Worked on manual lathe and mill to produce test specimens for tensile testing.
- Maintenance**, *UT Austin Cogeneration Power Plant, Austin, TX* **2000-2001**
- Cogeneration steam and gas turbine maintenance work.
 - Completed overhaul and inspection of 35 megawatt Gas Turbine.
- Shop Foreman**, *Domatex Inc, Houston, TX* **1996-2000**
- Supervised 15 employees in a 18,000 square foot steel fabrication facility.
- Electro-hydraulic Engineer**, *USS Shasta (AE-33), USN Concord, CA* **1993-1996**
- Maintained and repaired Vickers Electro-Hydraulic winches.
 - Team leader for the maintenance and repair of 35 electric forklift trucks, six missile cargo elevators, seven ram tensioners, anchor-windless winch, and various other deck equipment.
- Propulsion Engineer**, *USS MT Vernon (LSD-39), USN, San-Diego, CA* **1991-1993**
- Qualified and acted as Engineering Officer for steam power plant.
 - Maintained and repaired 48,000 HP steam turbines, steam generators, steam boilers (D-Type), three stage 36,000 gallon per day evaporators, and all associated lubricating machinery.
 - Leader of the trouble shooting team for equipment repair.

Other Skills

Proficient in gas metal arc welding and electrode arc welding, oxy-acetylene and computer numeric control (CNC) plasma cutting, CNC sheet metal bending, CNC and manual sheet metal rolling, machining, trouble shooting, failure prediction.

Proficient in Solidworks, Cosmos Works, Engineering Equation Solver, \LaTeX , Microsoft Office.

Current leader of the Houston Cosmos User Group, assisting designers and engineers to evaluate their designs through finite element analysis. Supported by Solidworks Corporation. The group's website is www.meengineer.com

Languages

Fluent in Hebrew, Conversational Spanish

Military Service

US Navy, honorable discharge, final rank E-5. **1991-1996**

Honors & Awards

- Navy Achievement Medal, Navy Good Performance Medal, three commendation letters for exceptional work ethic.

Other

Four year scout member

Work Eligibility

US citizen