

SCOTT D. LEWIS

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SUMMARY

M.S. Mechanical Engineering 2007; Graduate student with research emphasis in fluids, combustion, & materials. Extensive design and testing experience includes work for El Dorado Eng., BYU, & EarthTech Eng. Diverse background includes Spanish language fluency and substantial international volunteer work. Excellent computer skills include: Fluent, MatLab, NX, C/C++, ANSYS, LabView, & Excel.

EDUCATION

M.S. Mechanical Engineering: Brigham Young University; Provo, UT *April 2008*
GPA: 3.62; Emphasis: Fluids/Combustion/Materials;
Grad Classes: CFD, Experimental Fluids, Viscous Fluids, Combustion, Compressible Fluids

Research: ***Deposition on Film Cooled Turbine Blades*** - U.S. Dept. of Energy *Jan 2006 – present*

- Utilize accelerated turbine deposition facility to understand the resulting surface effects on turbine blades with respect to different turbine operating conditions.
- Use computational fluid dynamics along with experimental verification to understand the heat transfer occurring across film-cooled turbine blades.

Publications: Coauthor of conference paper: “Effects of Particle Size and Gas Temp. On Deposition in Land Based Gas Turbines from Various Synfuels” – ASME Turbo Expo 2007;

Memberships: AIAA, ASME

B.S. Mechanical Engineering: Brigham Young University; Provo, UT *Sept 2006*

GPA: 3.65; Awards: BYU Half Tuition Academic Scholarships, Jeff Birch Memorial Scholarship

Technical Electives: Gas Turbines, Thermo 2, Composites, Kinematics, Control Systems

EXPERIENCE

Mechanical Engineering Intern – El Dorado Engineering - SLC, UT *Apr 2006 – Aug 2006*

- Refined and fine-tuned an automated demilitarization sequence for expired M-55 chemical rockets. Used CAD software to design various components.
- Performed combustion studies using an in-house computer model to determine the products of combustion resulting from containment burning of expired government rocket motors.

BYU Senior Capstone Design Project – Hewlett Packard *Sept 2005 – present*

- Designed a mechanical dynamic aperture which increases image quality and zoom on digital projectors by apodyzing the light source at the DLP chip.
- Performed optical, thermal, and mechanical analysis for the aperture blade design.

Test Engineering Intern. – EarthTech Engineering - Orem, UT *April 2005 – Jan 2006*

- Ensured that private contractors met city building code specifications through execution of radioactive density-compaction, and concrete air, slump, and compression testing.
- Licensed in radioactive density testing by the U.S. Nuclear Regulatory Commission (NRC).

Tool Inventory Administrator - Smith Tool - Ponca City, OK *June 2004 – Aug 2004*

- In charge of setup and calibration of \$500,000 worth of CNC tooling for seven Toyota CNC machines. Reduced machine downtime by 20%.
- Refined organizational skills by keeping a current inventory on all large CNC tooling.

Sales Representative – Matador Exterminating, Puerto Rico *April 2004 – June 2004*

- Developed marketing skills by selling \$12,000/month of one-year pest control service contracts through door-to-door contacts and selective advertising.
- 80% of communication was performed in Spanish.

SKILLS

Experimental Techniques: Particle Image Velocimetry, Hot-Wire Anemometry

Engineering Licenses: Passed Fundamentals of Engineering exam

Foreign Languages: Fluent in Spanish

Program:	Fluent	ANSYS	NX	LabView	MatLab	Excel	C/C++
Proficiency:	4	3	4	3	5	5	4
<small>1-(1-50hrs.) Beginner, 2-(50-100 hrs.) Novice, 3-(100-150 hrs.) Moderate, 4-(150-300 hrs.) Advanced, 5-(300+ hrs.) Excellent</small>							

INTERESTS

Aviation, reading, racquetball, kayaking, automotive repair, harmonica, international travel