

Luke E. Penrod

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Aeronautical engineer working as a test hardware designer. Experienced in self-managing daily tasks in a schedule-driven environment. Professional experience includes:

- PDM Authoring
- 2000+ Hours in CATIA V4
- EPP Request Management/IMSP Use
- Concept Development and Presentation
- Stress Analysis
- Test Equipment Operation

WORK EXPERIENCE ◇ **Aeronautical Engineer**, Lockheed Martin Aeronautics Company
(October 2003 - Present)

- Manage all aspects of test fixture lifecycles: requirements, design, fabrication, purchasing, and test.
- Perform all detail design tasks including material specification, stress analysis, commercial parts selection, drafting, and data management.
- Prepare schedule and budget planning information for long term testing programs.
- Originated and now direct a recently formed lab-wide technical discussion group.

◇ **Laboratory Assistant and Graduate Researcher**, Texas A&M University
(January 2000 - September 2003)

- Designed and ran various lab experiments.
- Wrote and implemented software for use with data acquisition boards.
- Presented reports and proposals at reviews and technical conferences.

◇ **Mechanical Engineering Internship**, Lockheed Martin Space Operations Company, Houston, TX (May 2000 - August 2000)

- Designed test stands and test programs for high vacuum chambers.
- Coordinated maintenance and upgrade of facilities.
- Prepared CAD drawings of building systems.

EDUCATION ◇ **Texas A&M University**, College Station, TX.

M.S. – Aerospace Engineering, graduated December 2003.

Thesis project: *Fabrication and Characterization of Porous Shape Memory Alloys*.
GPA: 3.25

◇ **Texas A&M University**, College Station, TX.

B.S. – Aerospace Engineering, graduated August 2001.

GPA: 3.5 (Major).

PUBLISHED WORKS ◇ Penrod, Luke; Talley, Diana; Froyd, Jeff; Caso, Rita; Lagoudas, D.C.; Kohutck, Terry; “Integrating ‘Smart’ Materials into a First-Year Engineering Curriculum: A Case Study,” *Frontiers in Education* 2002.