

Justin Schick

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OBJECTIVE

Master's aerospace engineering graduate seeking a position in engineering research and development.

SUMMARY OF QUALIFICATIONS

- Over three years research experience in materials characterization and testing
- Interest: active materials prototype design and testing for commercial/military applications

WORK EXPERIENCE

Texas A&M University, College Station, TX March 2010 – May 2010
Research Associate

- Process high cycle SMA actuator test data produced at Boeing
- Perform analysis of the test results and create a detailed report for Boeing engineers regarding the optimum processing and training techniques for SMA actuators
- This work was performed in conjunction with engineers at The Boeing Company

EDUCATION

Texas A&M University, College Station, TX
M.S., Aerospace Engineering; GPR 3.3 Graduation: December 2009

Texas A&M University, College Station, TX
B.S., Aerospace Engineering; GPR 3.2 December 2007

RESEARCH EXPERIENCE

Texas A&M University, College Station, TX January 2008 – December 2009
Graduate Research Assistant

- Characterized the fatigue life performance of shape memory alloy (SMA) actuators
- Designed/built test setup for thermal fatigue cycling SMA actuators
- Developed actuator preparation and test methodologies
- Compiled and analyzed test results
- Research sponsored by Boeing
- Collaborated with Boeing engineers on the project
- Wrote comprehensive annual reports on the project for Boeing
- Thesis: "Transformation Induced Fatigue of Ni-rich NiTi Shape Memory Alloy Actuators"

Texas A&M University, College Station, TX May 2007 – December 2007
Undergraduate Research Assistant

- Assisted in the characterization of shape memory alloy material properties
- Work included: MTS frame load testing and DSC characterization

TECHNICAL SKILLS

- *Computational* – ABAQUS, MatLab, LabView, SolidWorks, Excel, Power Point, Outlook
- *Management* – Technical presentations, project proposal writing, project report writing
- *Experimental* – Designing/building test apparatus, developing/implementing test procedures, specimen preparation methods, data analysis

PUBLICATIONS

Co-Author – Olivier Bertacchini, Justin Schick, Dimitris Lagoudas, “Parametric Study and Characterization of the Isobaric Thermomechanical Transformation Fatigue of Nickel-Rich NiTi SMA Actuators”, *Behavior and Mechanics of Multifunctional Materials and Composites 2009: Proceedings of SPIE*, San Diego, California, 9-13 March, 2009: Proc. of SPIE Vol. 7289.

REFERENCES

- Dr. Dimitris Lagoudas: *Aerospace Engineering Department Head*, Texas A&M University
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- James Mabe: *Senior Engineer*, Platform Performance, Phantom Works, The Boeing Company
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