

Gail D Jefferson

208 12th street #2
Atlanta, GA 30309
(850)264-4486
jefferso@eng.fsu.edu

OBJECTIVE

Challenging engineering career opportunity applying knowledge of strong computer and design skills, and a hands-on approach to product testing and problem solving.

EDUCATION

Florida A&M University Tallahassee, FL August 2004
Candidate for Ph.D. in Mechanical Engineering GPA 3.6
The Ohio State University Columbus, OH March 2003
Candidate for *Master of Biomedical Engineering* GPA 3.0
Georgia Institute of Technology Atlanta, GA June 1997
Bachelor of Mechanical Engineering Mechanical Engineering with Biomedical
Engineering Certificate GPA 2.8
Spelman College Atlanta, GA May 1997
Bachelor of Science Mathematics Cum Laude GPA 3.23

EXPERIENCE

Florida A&M University Tallahassee, FL 2000 - present
Graduate Research Assistant/Teaching Assistant

- Designed apparatus for a microtensile stage.
- Performed experiments that required an extensive working knowledge of the following tools and applications: ImagePro, Matlab, Maple, IDT Provision, ESEM, nanoscratch, and nanoindentation.
- Designed and implemented lesson plan for “Introduction to Engineering”, created and graded homework and quizzes for “Mechanics of Materials”, and taught “Mechanics of Materials” when the professor was not able to.

The Cleveland Clinic Foundation Cleveland, OH 1998 - 2000
Graduate Research Assistant

- Designed and implemented research protocols and recruited human subjects.
- Performed experiments that required an extensive working knowledge of the following tools and applications: Motion Analysis, dynamometer, Matlab, SPSS and inhouse programming language.

NASA Glenn Research Center at Lewis Field Cleveland, OH 1993-1998
Summer Intern

- Analyzed internal fluid flow in complex structures via Finite Element Methods including the use of FIDAP and Flow3D.
- Applied IDEAS and other software packages in the drafting, 3D modeling, assembly and analysis of components for the Fluids Combustion Facility.
- Analyzed and designed apparatus for the Combustion Module-1 (CM-1) and CM-2 Study Of Flame Ball At Low Lewis-number (SOFBALL) Experiment Mounting Structures.

N.S.F. Packaging Research Center Atlanta, GA 1996-1997
Research Fellow

- Utilized ThermoGravimetric Analysis (TGA), Differential Scanning Calorimeter (DSC), ThermoMechanical Analyzer (TMA) and Dynamic Mechanical Analyzer (DMA) equipment in the thermomechanical analysis and synthesis of various materials considered as underfill materials.

HONORS/ACTIVITIES

- Center for Nonlinear and Nonequilibrium Aerosciences (CeNNAS) fellow
- Tau Beta Pi (National Engineering Honors Society)
- Pi Tau Sigma (National Mechanical Engineering Honors Fraternity)
- Lab manager for the Laboratory of Micromechanics of Materials (LMM)
- Vice-President of OSU Biomedical Engineering Society (1998-1999)