

# JANE G. SAMPLER

123 Lone Pine Road ♦ New York, NY 123451 ♦ H: (724) 456-7898 ♦ JaneGSampler@gmail.com

## MECHANICAL DESIGN/ANALYST PROFESSIONAL

**Highly Experienced Mechanical Engineer** with expertise in finite element analysis, solid modeling / drafting and experimental testing protocols for industrial and manufacturing products. Design / consulting leader with expertise in industrial fan design and machine design. Excellent communication skills with the ability to simplify information to audiences of all levels. Seeking Senior Level Mechanical Design/Analyst Position.

## PROFESSIONAL PROFILE

- ♦ 17 years experience using the finite element computer program ANSYS to solve a wide variety of complex engineering problems involving static, dynamic, elastic-plastic, large deflection, modal and heat transfer analyses.
- ♦ Comprehensive business / technical skill set with a track record of superior client relations and ability to manage high-stress situations.
- ♦ Provide strategic planning to all projects while integrating the requirements of clients.
- ♦ Motivated self-starter with a reputation for dedication to detail and for being highly mechanically inclined.
- ♦ Expertise in creating products utilizing solid modeling CAD tools, verifying the relationship of various parts and preparing detailed drawings.
- ♦ Consistently meet/exceed project timelines; innovative and progressive with a passion for machine design.
- ♦ Co-Inventor of 2 patents: DES 397,228 (Step Ladder) and DES 404,503 (Caddy Top).
- ♦ Memberships: American Society of Mechanical Engineers (1992 to Present), Western PA ANSYS Users Group (1992 to Present), Treasurer (1999 to 2007).

## AREAS OF EXPERTISE

- ♦ Hands-On Technical Applications
- ♦ Process Design/Measurement
- ♦ Reputation for Excellent Client Service
- ♦ Project Management
- ♦ IT Skills/Hardware & Software Installation
- ♦ ANSYS Classical/Workbench
- ♦ Pro/ENGINEER
- ♦ AutoCAD / Inventor
- ♦ Microsoft Office Suite
- ♦ Solid Edge

## PROFESSIONAL HISTORY

### Design Engineering Analysis Corporation, Canonsburg, PA (1998 to Present)

#### *Consulting Engineer*

- ♦ Perform complex finite element analyses on existing customer designs for industrial fan manufacturers and major utility companies, report findings to clients.
- ♦ Lead design and testing processes for industrial and manufacturing products including, Forced Draft/Inducted Draft Fans for Industrial Power Plants, Conveyer Systems, and Screen Systems.
- ♦ Provide consulting services and lead implementation of innovative solutions to complex engineering challenges; define effective solutions utilizing finite element analysis methods, and/or testing to pressure components, mechanical equipment, structures, systems, processes, and concepts.

### Werner Ladder Company, Greenville, PA (1992 to 1998)

#### *Research & Design Engineer/Analyst*

- ♦ Provided engineering support for extruded product division; designed and evaluated newly patented accordion style hurricane shutter hinge, performed testing and analysis utilizing simulated wind load pressure and missile style projectile impact studies.
- ♦ Performed thermal analyses on various heat sink devices and provided support for the ladder development division, resulting in new product patents.

## EDUCATION

New York University, Bachelor of Science, Mechanical Engineering Technology