J O H N   P I T T E R L E

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647 Cricklewood Drive • State College, PA 16803

OBJECTIVE

Contribute to successful programs as a detail-oriented mechanical engineer/finite element analyst applying 15 years of experience in structural and vibration analyses emphasizing finite element analysis as part of an engineering team conducting design, development, manufacturing, and/or research.

SKILLS

- Acquired 15 years of experience performing state-of-the-art dynamic and static finite element analyses applying the MSC/NASTRAN, CSA/NASTRAN, and ANSYS computer codes.
- Utilized I-DEAS Master Series, HyperMesh, MSC/XL, Unigraphics, GFEM, and other CAD/CAE software.
- Experience with Windows, MS Office, Unix, Cray; Fortran; and various professional plotting programs.

WORK EXPERIENCE

Applied Research Laboratory   Associate Research Engineer, Penn State University   1996-2000
- Performed finite element vibration analyses leading to designs with reduced stress, vibration, and noise levels.
- Analyzed propulsors for several programs that gained funding and continued for several years.
- Performed vibration analyses supporting development and implementation of advanced Navy hardware.
- Influenced the evolution of U.S. Navy propulsor design by minimizing noise sources with NASTRAN analyses.
- Provided both dynamic and static design guidance for numerous underwater structures and turbomachinery.

Applied Research Laboratory   Assistant Research Engineer, Penn State University   1987-1996
- Helped develop a low cost, low noise shroud with advanced and metallic materials using finite element analyses.
- Analyzed underwater vehicles to facilitate the development of acoustic design features.
- Advanced and expanded modeling and simulation at ARL by implementing and applying new methods.
- Developed software for more efficient pre- and post-processing and analysis with NASTRAN.
- Authored or coauthored 25 internal and technical memorandums/reports.

Applied Research Laboratory   Engineer Assistant, Penn State University   1985-1987
- Applied finite element analysis with NASTRAN to analyze and troubleshoot Navy hardware and other structures.

AoG World Missions   Missionary Associate, Antananarivo, Madagascar   2000-2004
- Managed three-year study Bible translation project with 15 workers. Also responsible for finances, vehicles, etc.
- Coordinated national book development, distribution, and training throughout Madagascar.

EDUCATION AND DEVELOPMENT

Bachelor of Science, Mechanical Engineering   Penn State University, University Park, PA   1983-1987
- Major GPA: 3.4 / 4.0; Pi Tau Sigma and Tau Beta Pi Honor Societies; Dean's List 3 semesters.

Graduate Class   Experimental Modal Analysis - 4.0   Penn State University, University Park, PA   1990

Attended various short courses and seminars at the Applied Research Lab and PSU   1987-2000

AWARDS RECEIVED

1991 ARL Technical Contribution Award for Suprelite Program Team

SECURITY CLEARANCE

Confidential and Secret, 1988-2000