

# JOHN PITTERLE

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## OBJECTIVE

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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

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- 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

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- 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 composite 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

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- 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

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1991 ARL Technical Contribution Award for Suprelite Program Team

## SECURITY CLEARANCE

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Confidential and Secret, 1988-2000