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SoftInWay through the Prism of Events

Digital prototyping is a "marriage" of a computer aided design (CAD) with computer aided modeling and optimization (CAE). The off-springs of this alliance are better products, delivered from conception to market place in shorter time. This methodology grew up from aerospace and turbo-machinery industries and now it's being applied more and more often for a variety of products.

SoftInWay shared its profound expertise in this methodology, participating in various industries events. Some of the latest are highlighted below:

- ANSYS User Group seminar that took place at Hewlett-Packard facilities in Lexington, Massachusetts on May 29, 2003 [More>>](#)
- 2003 International Joint Power Generation Conference and Exposition, Georgia World Congress Center - Atlanta, Georgia, June 16-19, 2003 [More>>](#)

Openings in SoftInWay

We currently invite you to explore the vacancies that the links below are leading to:

- [CAE Software Developer](#)
- [Project Manager, Engineering Consulting](#)
- [Sales Engineer/Project Manager](#)

You will join a strategically focused and highly motivated team involved in Scientific, Mechanical Engineering, Design Consulting and Software Development. You also will have an opportunity to work on multiple projects in a flexible, friendly environment.

Latest Press Releases

SoftInWay Is Awarded by SBIR Phase I Grant from NIST

SoftInWay, Inc. is pleased to announce that company has been awarded with Small Business Innovation Research (SBIR) grant for Phase I research by National Institute of Standards (NIST). Research will focus on development of standards-based tests, cases and tools facilitating data exchange in STEP format between CAE systems

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SoftInWay's Online Presentation

An opportunity to view our abilities in Design and Engineering Consulting at a glance!

The presentation gives an overview of visualized samples of SoftInWay's projects and solutions in different kinds of our consulting services. This presentation featured more viewer-oriented approach with separate sections pertained to a certain kind of activity, now with wide array of rotating and other kinds of machinery Design applications along with CFD, Heat Transfer, Structural/Thermostructural, Visualization and Software development.

[View >>](#)

Welcome to our Science Club!

New Mechanical Engineering Papers!



Latest:
L. Moroz and A. Tarasov
Coupled CFD and Thermal Steady State Analysis of Steam Turbine Secondary Flow Path

Proceedings of 2003 International Joint Power Generation Conference June 16-19, 2003, Atlanta, Georgia, USA

[More articles >>](#)

Latest Press Releases

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Industry collaborators have developed a suite of standards in the Organization for International Standardization (ISO) to exchange neutral product model data. It is ISO 10303 Standard for the Exchange of Product Model Data (STEP). Between early adopters of STEP there are such companies and organizations as NASA, Lockheed Martin, Boeing, Caterpillar, PTC and others.

According to NIST, there are more then a million CAD, CAM and CAE workstations that exchange solid model geometries, assemblies of mechanical products and other information using STEP format. Nearly every CAD vendor now supports STEP AP203 translations and end users recognize that it is the most reliable way to move engineering data between systems.

A new generation of STEP application protocols AP209 is now coming on line supporting exchange of finite element analysis (FEA) models and analysis results. "We need to make the testing process more efficient, so that the delay before ordinary users can take advantage of the new capability is significantly reduced", says Dr. Leonid Moroz, President and CEO of *SoftInWay*. "Without new testing tools, the delay could be worse because by definition the new STEP application protocols are more sophisticated, include more capability and therefore are harder to implement and test."

SoftInWay through the Prism of Events

Seminar on ANSYS Multiphysics Technologies

Organized by ANSYS within the seminar series devoted to leveraging its multi-physics technologies to gain a competitive advantage. ANSYS User Group seminar took place at Hewlett-Packard facilities in Lexington, Massachusetts on May 29, 2003. It gathered over 50 participants - engineers, designers, and managers from more than 30 companies and universities - who play a leading role in research, product development and verification. Engineers discussed latest ANSYS' multi-physics and fluid-structure interaction capabilities and their impact on high-fidelity design. Participants shared best practices, asked implementation questions and raised issues with ANSYS developers and application engineers.

Dr. Igor Tchertkov, a Lead Engineer from *SoftInWay*' Burlington office presented snap shots of three current digital prototyping projects involving ANSYS. First project was concerned with design, modeling and optimization of a die used for polymer extrusion. Results of thermo-mechanical analysis and modeling of fluid-structure interaction were presented. Modeling allowed customer to avoid costly temperature control of the die and obtain optimized die topology. Second project was concerned with coupled multi-physics analysis of micro electro-thermo-mechanical (MEMS) actuator. Results demonstrated that actuator fabricated from Ni should have superior properties over the one made from polysilicon. As a result customer could select a better suited micro fabrication process first time around, avoiding delays and expenses. However, most interest in the audience was sparked by presentation of parameterized mesh generators developed by *SoftInWay* for fast creation of optimal finite-element models. To view an entire presentation, please visit our web site [Click here](#)

2003 International Joint Power Generation Conference and Exposition

This well known international conference as always promotes technological progress and international cooperation in the power generation industry. This year's conference has been co-located with ASME Turbo Expo Land, Sea & Air, an event dedicated to gas turbines. The combined events had over 800 presentations to choose from.

SoftInWay participated in several tracks of this event, particularly, in Components, Plant Systems and Design Engineering sessions. However, main area of focus was the sessions of [Combined Cycles](#), [Combustion Turbines](#), [Steam Turbines and Generators](#) - the area *SoftInWay* has a significant expertise in. The results of research dedicated to turbine flow path design were reported in "COUPLED CFD AND THERMAL STEADY STATE ANALYSIS OF STEAM TURBINE SECONDARY FLOW PATH", paper by Dr. L. Moroz, President and CEO of *SoftInWay*, and Dr. A. Tarasov, Chief Technologist of Heat Transfer and CFD Group. Dr. Leonid Moroz, who was a featured speaker at one of the sessions says, "It was a pleasure and a great responsibility to speak before the academia experts and senior engineering and management staff from industry leading companies. "And we were pleased to see an evident interest shown by the audience to our work and innovative methodology."

The study has both scientific and practical orientation since it consolidates research and design issues. The new computational methodology developed by the authors allowed significantly simplify process of secondary flow path design preserving required accuracy and reducing time and computational resources.

To view full paper [click here](#) (To view the article, Adobe Reader 5.0 and higher is needed. For free download of Adobe Reader for Windows please [click here](#))

Please contact *SoftInWay, Inc.* for your turbomachinery/rotating machinery design and/or digital prototyping problems.

Openings in SoftInWay

Welcome to join SoftInWay Incorporate! We invite you to explore the vacancies presented below:

CAE Software Developer

This individual should have experience in development of complex engineering software projects and a strong background in CAE tools. Excellent understanding of FEA and / or CFD methods and issues. It is essential that the individual has a strong desire to learn and explore new technologies and is able to demonstrate good problem solving skills.

- Requirements:
- B.Sc., or M.Sc., or Ph.D. in Mechanical Engineering, Applied Math or Physics with respectfully 5+, or 3+ , or 0-1 years of experience in engineering software development (C, C++, FORTRAN);
 - Thorough knowledge of FEA and / or CFD methods;
 - Hands on experience with at least one of the following tools: ANSYS, MSC.Software, ABAQUS, I-Deas, CATIA, Fluent, or CFX.
- Experience with SolidWorks and / or Pro/E is a plus.

Project Manager, Engineering Consulting

This individual will be responsible for all-round technical preparation and evaluation of project proposals in FEA-based CFD, Heat Transfer, Stress-Strain areas. Recommending improvements, the project's technical issues coordination including problems' review, sophisticated model description, precise boundary conditions evaluation, and gathering and analysis of other data required for providing further non-stop development process.

Also responsible for building and maintaining development schedules and fulfilling project deliverables on time, from inception to client sign-off. Beyond this, the candidate needs to have very sharp analytical skills, which s/he will use through the project life cycle, including detailed pre-development proposal analysis, projects feasibility estimation, and user requirements analysis.

- Requirements:
- Masters Degree or Bachelor in Mechanical Engineering with significant related experience at Power Generation Machinery oriented companies like GE, Pratt & Whitney, Rolls-Royce, Alstom. Computed Science Degree is desirable.
 - 5+ years of complex Mechanical Engineering project management, engineering application development, design, and implementation experience.
 - Experience in FEA-contained packages' implementation like ANSYS and/or similar toolkits is required.
 - Principle knowledge in CFD, Heat Transfer, Stress-Strain, Machine Design is extremely appreciated.
 - Must be strongly focused and extremely organized.
 - Proven experience in writing specifications, quality assurance, project complexity, labor effort estimation, and risk analysis skills.
 - Exceptional oral and written communications skills are essential.
 - PMI certification is a plus.

Sales Engineer/Project Manager

The essential job function of this person is business development and sales of engineering/software development consulting services including: - forecast development to achieve national sales goals, - developing and implementing a strategic sales plan to achieve national sales goals; - identify, close and maintain key accounts; - provide information to marketing to improve products and profitability; - monitor and assess major competitors' activities and products.

The person will perform sales work inside and outside in support of SoftInWay's engineering services for diverse industries including Aerospace, Power Generation, Automotive, Energy, Petrochemical, Utilities, Gas, etc. He/She will prepare proposals or service contracts for SoftInWay's engineering services with deep understanding of customer requirements and company's team Design and Engineering abilities in FEA-based CFD, Heat Transfer, and Structural applications development. Coordinate and schedule marketing activity. Serve as Project Manager for various projects, both temporary and ongoing.

- Requirements:
- Minimum 4 year Degree in Mechanical Engineering or related areas with significant related experience at Power Generation Machinery oriented companies like GE, Pratt & Whitney, Rolls-Royce, Alstom.
 - 5 - 8 years experience of supplying sales quotas in selling consulting services to C-level executives in engineering and scientific.
 - Principle knowledge in CFD, Heat Transfer, Stress-Strain, Machine Design, CAD/CAE, and Visualization is appreciated. Knowledge of MS Office and MS Project is a plus.
 - Excellent prospecting and presentation skills .
 - Must be strongly focused and extremely organized.
 - Exceptional oral and written communications skills are essential.

About SoftInWay Corporation

SoftInWay, Inc. is an engineering company headquartered in Burlington, Massachusetts, USA. Company has a sales office in Scottsdale, Arizona, USA. Company's mission is to serve international high-technology community by providing high quality engineering services and software products in the area of design and modeling of turbo-, thermo- and rotating machinery; and thermal-, structural- and fluidic analyses. Company uses its proprietary technologies, and industry standard CFD and FEA tools to address design issues at the earliest possible stage, maximize engineering productivity and increase efficiency of new and retrofitted equipment. Company collaboration with academia, industry, and customers around the world has led to a reputation for constant innovation in the complete design-to-manufacture process.

For more information, visit <http://www.softinway.com> or call 781-685-4942.

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