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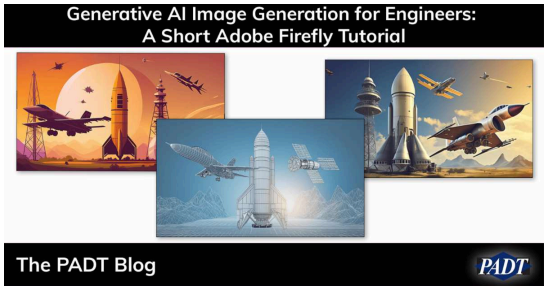
June 2024 **www.padtinc.com**

Featured Stories

Generative AI Image Generation for Engineers: A Short Adobe Firefly Tutorial

One of the most useful types of Generative Artificial Intelligence (GenAI) tools to bubble to the top of so many options is image generation. There are several fantastic free and a growing number of paid solutions for turning text into an image or filling in a portion of an existing picture with something new. I played with a few and have settled on Adobe Firefly as a perfect fit for business. Here is a tutorial to help you get started.



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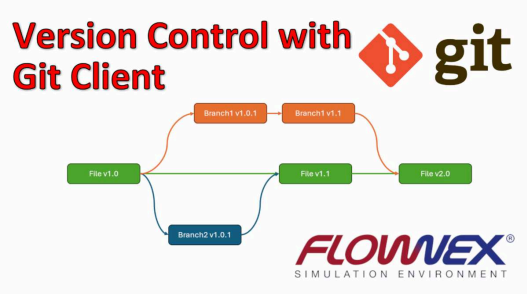
Flownex Model Version Control with GIT Client

Flownex 2024 has added version control in the form of a Git Client. In Git, all versions of a project and related files are stored in either a local or a remote repository (aka “repo”). This benefits the user as we are able to revert to older versions of a project merge changes made by multiple users, create branches within a design, and capture all changes in a log. The repository can also function as a form of backup.



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7 Reasons Why LS-Dyna Should Be One of Your Simulation Tools

When it comes to creating a computer model of your products, engineers have a wonderfully wide range of simulation software tools to choose from, especially in the Ansys family of products. Each has its strengths and weaknesses. In this article, we explore some of the less-known but widely applicable features of one of the most powerful tools in the Ansys portfolio.

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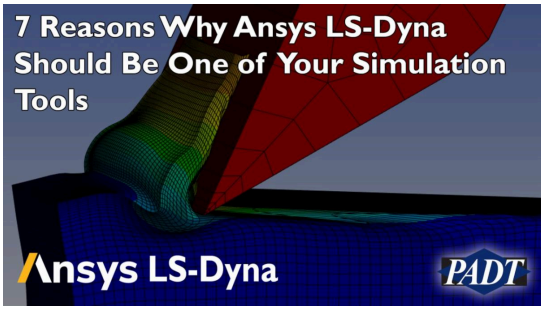

Customer Corner

Astroscale Gets within 50 Meters of Space Debris

Astroscale announced that its commercial debris inspection demonstration satellite, Active Debris Removal by Astroscale-Japan (ADRAS-J), has achieved another unprecedented milestone for a commercial company. ADRAS-J successfully completed the safe and controlled approach to an unprepared space debris object – a rocket upper stage – to a relative distance of approximately 50 meters,

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The Southwest Sustainability Innovation Engine Revs Up

The Southwest Sustainability & Innovation Engine (SWSIE), led by ASU and including PADT customers SRP, APS, UofU, and MCC, is taking a significant leap towards fostering economic growth across the region in the field of sustainability. The ambitious endeavor, funded by a $15 million grant from the National Science Foundation, aims to holistically tackle the complex intersection of energy, water, and workforce development.

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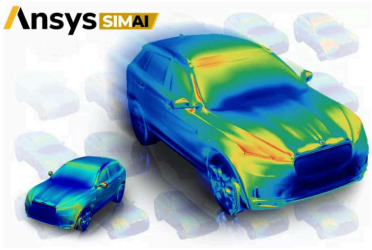
Featured Products and Services

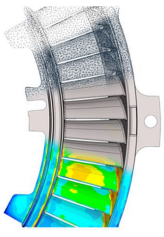


Simulation
Ansys SimAI

Ansys's first solution for AI-Augmented Simulation Technology,
SimAI was designed for greater accessibility, from engineers and designers to business users. This cloud-enabled generative AI platform uses your simulation

3D Printer
Stratasys Fortus F450MC

The Fortus 450mc builds parts in the materials you're familiar with, but with the advanced complexity and high requirements needed for today's manufacturers. With easy-to-use interfaces and software controls, the Fortus printing



Services
Simulation Consulting

Across industry and across physics, PADT's simulation experts are on call to deliver on your simulation needs. Single physics to Multiphysics, structures to hypersonic, we have the knowledge, tools, and hardware to

results to reliably assess the performance of a new design within minutes.

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systems make it easy to produce complex parts more efficiently and effectively.

Learn More

be your partner and help you drive your product development with simulation. We not only carry out advanced analysis projects, but we also offer software customization and scientific computing coding as part of our services.

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Upcoming Events

- 06/25/2024 - 06/27/2024 | **RAPID + TCT 2024, Los Angeles**
- 06/26/2024 | **Webinar: Structures Updates in Ansys 2024 R1 (3) – Materials, Contact & Joint Element**
- 06/27/2024 | **E-Mobility and Clean Energy Summit**
- 07/15/2024 | **Experience Stratasys Truck Tour: Salt Lake City, UT**
- 07/18/2024 | **Stratafest Denver, CO**
- 08/05/2024 | **2024 CEO Leadership Retreat, Sedona**
- 09/09/2024 | **Turbine Engine Technology Symposium 2024**
- 09/10/2024 | **New Mexico Tech Summit 2024**
- 10/23/2024 | **PADT30 + Nerdtoberfest 2024**

Space Available

A portion of a suite in PADT's building is becoming available this summer. 3,800 sqft of office and lab located in the ASU Research Park in Tempe.

- 3,808 sqft in 5,640 sqft suite,
- PADT owned building
- 10 ft ceiling in offices & halls
- 15 ft ceiling in bay
- 10 x 12 garage door at grade level
- ESD flooring in lab areas
- 765 sqft Assembly room/lab space
- Lab is upgradeable to clean room
- Cox fiber internet to building
- 480/277 V 3PH Power
- Fully Air Conditioned
- SRP Power
- Ample Parking

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What You Missed...

PADT

All Things Ansys Podcasts

Webinars

Structures Updates in Ansys 2024 R1 (3) - Materials, Contact & Joint Element

Sky's Not the Limit: The Power of SAF 3D Printing for Aerospace

Connect Updates in Ansys 2024 R1 - OptiSLang, ModelCenter & More

Optics Updates in Ansys 2024 R1 - Lumerical, Zemax & SPEOS

127: Bringing Simulation into Virtual Reality with SciVista

126: Structural Updates in Ansys 2024 R1

125: 2023 Wrapup

124: Ansys Licensing

New Product Releases

AnsysGPT: An AI-Powered Virtual Assistant

Ansys GPT is an AI-powered virtual assistant, Built using ChatGPT technology, the virtual assistant fuses the expertise of Ansys engineers with the power of AI to deliver a general-use tool capable of providing rapid, 24/7 customer support. AnsysGPT is trained using Ansys data to provide useful responses to customers' most pressing engineering questions within seconds.

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Stratasys Release Polypropylene for SAF

Stratasys Ltd. (Nasdaq: SSYS) today announced the commercial availability of its groundbreaking new material, SAF™ Polypropylene (PP)for use on the Stratasys H350™ printer, set to launch in fourth quarter of 2024. The material will be available for viewing at the Stratasys booth during the upcoming RAPID + TCT Expo in Los Angeles, CA, June 25 – 27.

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J5™ Digital Anatomy™ 3D printer

Stratasys Ltd. announced the launch of its J5™ Digital Anatomy™ 3D printer, the latest innovation designed to address the growing demand for cost-effective, high-fidelity anatomical models. This Stratasys innovation is designed to enable hospitals, medical device manufacturers and research institutions to enhance patient outcomes, streamline operations and bring products to market faster..

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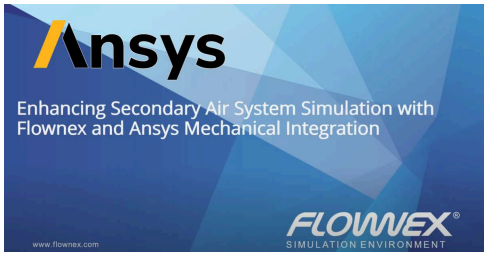

Flownex - Enhanced Ansys Coupling

The latest version of Flownex SE includes a new set of features for coupling between Ansys and Flownex, especially for secondary flow. The Flownex solver calculates fluid temperatures and heat transfer coefficients, while the Ansys Mechanical solver simultaneously computes solid temperatures

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Oryx Additive's New SCA40k

The large Support Removal System for Additive Manufacturing you have been waiting for is here. the SCA40K was designed for use for high-throughput and large part 3D Printing. The Oryx Additive team will be debuting the system at the 2024 RAPID + TCT

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Other Stuff

Making a Difference

Talking Tech with High School Students

CEI is hosting a summer camp for High School students interested in a BioTech college or career path. PADT's co-owner Eric Miller stopped by after lunch and shared his thoughts about entrepreneurship, an engineering major in college, and some lessons learned from his own career. There were great questions and some good back and forth on all the different ways students can work in Biotech and related industries.

PADT Hosts 16 Leaders from Argentina

A **Global Chamber hosted delegation** of 16 Leaders from Tierra del Fuego, Argentina, stopped by PADT on their visit to Phoenix. We talked about Additive Manufacturing, product design, and what it is like to start and grow a business in Arizona. The group included elected officials, business executives, and community representatives from the southernmost part of the country.

The Latest Definition from PADT's 3D Printing Glossary

Programmable PhotoPolymerization [P3]

A type of vat photopolymerization additive manufacturing where a projector under a transparent build plate shines ultraviolet light onto the build layer, which is against the transparent build plate. The part is then pulled upward so that a new layer of liquid fills between the build plate and the part, and the process is repeated. This process also includes precise control of temperature, pull forces, and fluid flow in the vat.

Abbreviated as P3.

Categories: Additive Manufacturing Processes, Vat Photopolymerization

Join us for our Open House in October:

Current Job Openings

- We currently have no open positions

Thank you for taking the time to read our email. If you have any questions, reach out at 480.813.4884 or **info@padtinc.com** or learn more at **www.padtinc.com**. Always feel free to forward this to anyone you think might be interested.

We Make Innovation Work

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