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September 2023

[www.padtinc.com](http://www.padtinc.com)

## Featured Stories

### Flame Retardant Polymer Materials in AM

Flame retardancy is the tendency of a material to extinguish a flame after ignition. This can be important in 3D printed parts, most notably aerospace, automotive, construction, and consumer goods. Thankfully, multiple materials and printing techniques can increase the flame retardancy of common 3D printing materials.

[Read More](#)

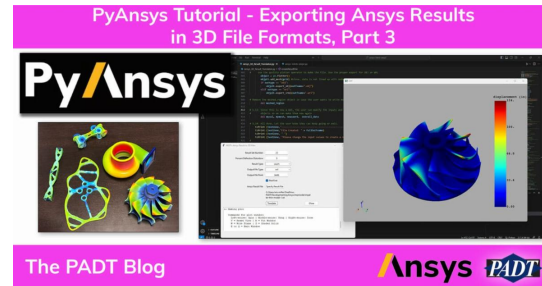


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### PyAnsys Tutorial – Exporting Ansys Results in 3D File Formats, Part 3

This is our final post on how to use PyAnsys to create a program that reads results from Ansys Mechanical and converts them to a variety of 3D File Formats, including a file that allows you to 3D Print your Ansys results. this final article introduced a GUI and support for WRL files that a 3D Printer can read.

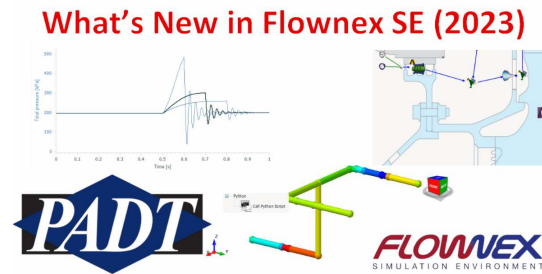
[Read More](#)



## What's New in Flownex SE 2023

The anticipated 2023 version of Flownex is out. This release comes with several major enhancements, with a focus on improving workflow productivity, enhancing user interaction, and expanding the accuracy of simulations. Major highlights include parallelized sensitivity analysis setup, improved accuracy for various rotating components, enhanced visualization features, and much more.

[Read More](#)



## Customer Corner



# ERTHOS

**Erthos Secures Additional \$24**



# PARAGON

SPACE DEVELOPMENT CORPORATION®

**3D-Printed GPS Antenna a  
Pathfinder for Future**

## Million in Equity Financing

Utility-scale solar trailblazer, Erthos, today announced securing \$24 million in funding. The investment will accelerate the company's growth, addressing the surge in demand and supporting upcoming large-scale projects.

[Read More](#)

## Satellites

Hera Rising is an unprecedented global live event of the first ever stratospheric balloon jump from the edge of space done by a woman that is set to break current world records. Paragon is excited to be the prime contractor on this mission!

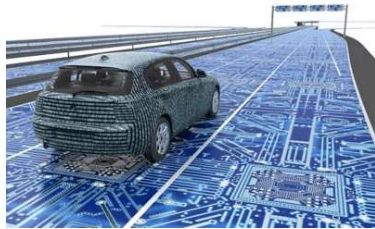
[Read More](#)

## Featured Products and Services



Your Online Store  
for 3D Printing  
Materials

Coming Soon



### Simulation Product **Ansys Medini**

Dramatically decrease analysis efforts with efficient application of quality, safety, reliability and cybersecurity analysis methods at the system, item, software, hardware and PCB levels.

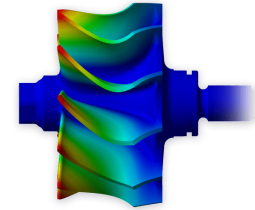
[Learn More](#)



### 3D Printer **Stratasys Origin One**

A transformative 3D printer enabling mass production of end-use parts in a diverse range of high-performance materials. From biocompatible medical devices to aerospace-grade components and everything in between, Origin One enables breakthrough production applications.

[Learn More](#)



### 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 be your partner.

[Learn More](#)

## Upcoming Events

### It's That Time Again

PADT's Annual Open House  
www.padtinc.com/nerdtoberfest  
October 25, 2023, 4-7



# Nerdtoberfest

## 2023

- 09/26/2023 | [Experience Stratasys Truck Tour - Houston](#)
- 09/27/2023 | [Ansys 2023 R2 | Contact, Composites & Fracture – Webinar](#)
- 09/27/2023 | [2023 AZBio Awards](#)
- 10/02/2023 | [Colorado Life Science Innovation Forum](#)
- 10/18/2023 | [2023 Southern Arizona Tech + Bio Expo](#)
- 10/25/2023 | [Ansys LevelUp 2023 Virtual User Group Meeting](#)
- 10/25/2023 | [Nerdtoberfest - PADT Annual Open House](#)
- 11/15/2023 | [2023 Governor's Celebration of Innovation](#)



October 25, 2023  
9 AM - 2 PM EST

[REGISTER NOW](#)

Ansys  **LEVELUP**  
ENGINEERING SIMULATION CONFERENCE

## What You Missed...



### PADT Webinars

[3D Printing vs. CNC  
Machining](#)



### All Things Ansys Podcasts

[122: Mixing Solutions with  
Ansys Simulation](#)



### Videos of the Month

[Mini FDM Inflatable Boat!!](#)

Maxwell Updates in Ansys  
2023 R2

121: Simulating Power  
Electronics

Part 2 Industrial Machinery  
Kit - Hinges, Clamps, and  
Housings, OH MY!

Improved Injection Molding  
with Additive

120: Ansys and Sustainability

Biomedical Simulation in  
Flownex - Modeling Blood  
Flow In and Around the Heart

## The Latest Definition from PADT's 3D Printing Glossary



### Inkjet

A liquid deposition process that propels (jets) very small droplets of material from a print head onto a surface. Many small jets are arranged on the printhead to deposit larger amounts of material at the same time and can be turned on and off to create a pattern. When multiple heads with different materials in each are used together, colors can be created, or materials can be mixed. In **additive manufacturing**, **inkjet** methods are used across processes to deposit material that can be the **build material**, **support material**, **binder**, or some other chemical used in the manufacturing process. Categories: **Manufacturing Term**

## Current Job Openings

- [Application & Support Engineer, Structural](#)
- [Business Development Representative, Software Sales](#)
- [Enterprise Account Manager, Software Sales](#)
- [Hardware \(3D Printing\) Applications Engineer](#)
- [Janitorial and Warehouse Associate](#)
- [Marketing Specialist - Demand Generation](#)
- [Model-Based Systems Engineer](#)
- [Project Engineer](#)
- [Sr. Mechanical Engineer](#)

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