



December 2024

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Featured Stories

Happy Holidays from PADT

2024, our 30th year in business, has been an outstanding year for PADT. As we embrace the holiday season, we want to thank each of our customers, employees, and partners for making this year, and the twenty-nine before it, so rewarding. We also want to wish everyone a wonderful holiday, and we look forward to making memories and bringing dimension to ideas with you in 2025!



PADT Deepens Commitment to Arizona Manufacturing as State's First NOCTI Certified Additive Manufacturing Site

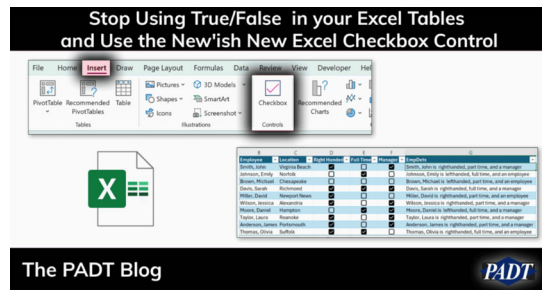
Recognizing the need for workers who have knowledge of and proficiency in additive manufacturing (AM), PADT has teamed up with Stratasys to offer NOCTI-certified training to educators who want to develop a certified training program. The program was built in cooperation with the National Occupational Competency Testing Institute (NOCTI) for the Fused Deposition Modeling (FDM) Process.



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Stop Using True/False in your Excel Tables and Use the New-ish New Excel Checkbox Control

We use Microsoft Excel to keep track of so many things and have always wanted an Excel Checkbox that works like putting True or False in a cell (or 0 or 1). We were shocked to learn that at some point in 2024, they added a usable Excel Checkbox that did just what we wanted. Finally. Right there in insert! So, we thought we'd share it with other long-time Excel users who didn't know it was there.



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Customer Corner



Neolight Technology Standard of Care in Nine of the Nation's Top 10 Neonat Hospitals

NeoLight's newborn medical device innovations have achieved an important milestone. 9 out of the 10 hospitals listed as leaders in neonatal care have chosen NeoLight's solutions as their standard of care. Not only are they the preferred solution in 90% of the top 10, but they are also the standard of care in the majority of the top 50 neonatal centers.

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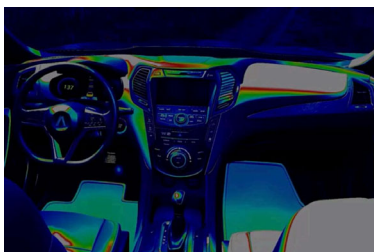


Boyd's Innovative Liquid Cooling Systems Streamline Next-Gen NVIDIA AI GPUs

Boyd released a new video sharing how its complete liquid-cooling systems simplify and accelerate next-generation artificial intelligence (AI) deployment when implemented with the NVIDIA GB200 NVL72 platform. Each Boyd liquid-cooling component is optimized to work in unison with NVIDIA GB200 and delivered as a plug-and-play modular system, enabling data centers to maximize performance and deployment speed.

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Featured Products and Services



Simulation Ansys SPEOS

Turn on the light in your virtual model and intuitively explore the propagation of light in 3D. Cut iteration time and speed up your decision-making process by performing simulations correctly



3D Printer Stratasys J826 Prime

Design and creativity have no limits. Now, with the Stratasys J8 Series, the same is true for 3D prints. Our tried and tested technology simplifies the entire design process, streamlining



Services 3D Printing Services

Leverage PADT's expert engineers, broad selection of additive manufacturing technologies, multiple materials, and talented technicians to deliver on your outsourced 3D

the first time, automatically designing for optical surfaces, light guides and optical lenses. To match your performance specifications, Speos combines powerful light analysis capabilities with illumination evaluation across the electromagnetic spectrum.

[Learn More](#)

workflows so you can spend more time on what matters – creating, refining and designing the best product and prototype possible, incorporating true Color/Material/Finish (CMF) properties.

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Printing. We don't just print your parts. We start by understanding your goals and then work with you on process and material selection, so you get the parts you need.

[Learn More](#)



Upcoming Events

- 01/07/2025 - 01/10/2025 | [CES 2025 - Ansys Booth](#)
- 01/22/2025 - 01/24/2025 | [Arizona Photonics Days](#)
- 02/04/2025 - 02/06/2025 | [MD&M West 2025](#)
- 02/04/2025 - 02/06/2025 | [2025 Transformative Vertical Flight](#)
- 04/07/2025 - 04/10/2025 | [40th Space Symposium](#)

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

[Learn More](#)



PADT Webinars

padtinc.com/webinars

Structural Updates in Ansys 2024 R2 (3) - Materials, Contact



All Things Ansys Podcasts

padtinc.com/podcast

132: Simulating Additive - Updates on using Ansys tools for Metal Additive Manufacturing



Content of Interest



and Joint Element & HPC

Fluent Updates in Ansys 2024 R2

Optics Updates in Ansys 2024 R2 - SPEOS, Zemax & Lumerical

Structural Update in Ansys 2024 R2 (2) - Fracture, Linear & Non-linear Dynamics & LS-DYNA

Maxwell & Motor-CAD Updates in Ansys 2024 R2

131: Pushing the Boundaries of what Antenna Sub-systems can do with PlaneWave

130: Advancing Accuracy with Ansys & Flownex Co-simulation

129: Ansys 2024 R2 Exciting New Features

128: Meshing Capabilities in Ansys LS-DYNA

Ansys: Simulation Helps NASCAR Assess the Impact of SAFER Barriers During a Race



Stratasys: What's the state of 3D printing in manufacturing?

Other Stuff

Making a Difference

PADT Holiday Picnic

Every other year, PADT does a holiday picnic for employees and their families. We usually have it at Desert Breeze Park and serve up simple food and people bring their favorite side dishes. There were train rides and corn hole tossing along with our [left-right story gift exchange](#) and just catching up with everyone. The weather could not have been better. It's a great way to celebrate PADT's 30th year.



The Latest Definition from PADT's 3D Printing Glossary



Big Area Additive Manufacturing [BAAM]

A type of material extrusion additive manufacturing where polymer pellets, the same raw material used in injection molding, are melted, then fed into a heated extruder and deposited on the current build layer. It varies from FDM/FFF in size of the build volume, the diameter of the nozzle, and use of pellet material instead of filament. These systems utilize large industrial gantries and material handling equipment from injection molding to position and feed material to the extruder. The build volume size is only limited by the size of the gantry used. It is often utilized to create large tools and molds or large structures.

Abbreviated as BAAM.

Categories: Additive Manufacturing Processes, Material Extrusion

Current Job Openings

- We currently have no openings

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. PADT



We Make Innovation Work



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