



3D Printing Expertise from PADT Advances Aerospace Industry

Product design and development leader provides additive manufacturing support for United Launch Alliance Atlas V rocket

COLORADO SPRINGS, Colo. - April 11, 2016 - [PRLog](#) -- Phoenix Analysis & Design Technologies Inc. (PADT), the Southwest's largest provider of Numerical Simulation, Product Development, and 3D Printing services and products, is highlighting its expertise this week at the 32nd Space Symposium, the premier global, commercial, civil, military and emergent space conference.

During the symposium, PADT experts in additive manufacturing will be on hand to discuss the company's technical expertise, logistics, sales and service capabilities in the exciting aerospace sector, which contributed to the successful launch on March 22 of a United Launch Alliance (ULA) Atlas V rocket. The Atlas V rocket made use of lightweight thermoplastic 3D printed parts, with the application of Stratasys technology supplied by PADT and consulting from PADT on how best to apply that technology to engineering, tooling, and production.

Stop by and visit PADT's booth 1310 at the 32nd Space Symposium, April 11-14, in Colorado Springs, Colorado. <http://www.spacesymposium.org/>.

"PADT continues to be both a great supplier of both polymer and metal additive manufacturing technologies and an additive manufacturing technical consultant to ULA, supporting our Atlas V, Delta IV and future Vulcan Centaur launch vehicles," said Greg Arend, ULA manager, Additive Manufacturing. "By consulting with PADT, we were able to understand how these technologies enhance our design and manufacturing process, saving time, money and weight. PADT's knowledge of the use of both polymer and metal materials was instrumental in helping us achieve our success."

In addition to supplying ULA with Stratasys' polymer 3D Printing machines, PADT consulted with them early on and led a tour of Oakridge National Labs to help them understand the state of the art for both metal and polymer applications and produced a technological roadmap for both technologies that has largely been followed. Assisted by PADT, both companies made use of additive manufacturing for engineering prototypes, then advanced to the production of tooling for manufacturing and developed the confidence needed to move to flight hardware.

The founders of PADT have been involved with additive manufacturing since the late 1980's and the company was the first service provider in the Southwest in 1994. Over the years, PADT has built a reputation for technical excellence and a deep understanding of how to apply various 3D printing technologies to enable real world applications. Their sales team has shown the ability to sell sophisticated engineering products to companies large and small, and to provide excellent support to their customers.

"3D Printing is not just about makers, nor is it just about engineering prototypes," said Rey Chu, co-owner, principal and director of Manufacturing Technologies at PADT. "Every day users are creating production hardware to produce usable parts that save them time and money. Ducts for rockets are a perfect application of 3D printed parts because they are complex, low volume, and can make single parts that need to be made

in multiple pieces using traditional methods."

About Phoenix Analysis and Design Technologies

Phoenix Analysis and Design Technologies, Inc. (PADT) is an engineering product and services company that focuses on helping customers who develop physical products by providing Numerical Simulation, Product Development, and Rapid Prototyping solutions. PADT's worldwide reputation for technical excellence and experienced staff is based on its proven record of building long term win-win partnerships with vendors and customers. Since its establishment in 1994, companies have relied on PADT because "We Make Innovation Work." With over 80 employees, PADT services customers from its headquarters at the Arizona State University Research Park in Tempe, Arizona, and from offices in Torrance, California, Littleton, Colorado, Albuquerque, New Mexico, and Murray, Utah, as well as through staff members located around the country. More information on PADT can be found at <http://www.PADTINC.com>

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Source	PADT Inc.
City/Town	Colorado Springs
State/Province	Colorado
Country	United States
Industry	Manufacturing
Tags	3d Printing , Additive Manufacturing , Aerospace Design
Link	https://prlog.org/12548894



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