Summer news & updates

July 2024

Commercial Pitot Static Testing and the Benefits of Using Semi-Automated Air Data Test Equipment

Pitot Static Testing on the Flightline

Years have gone by without significant advancements in the more commoditized testing functions of aircraft. Old faithful still rings true for most wrench turners grinding it out everyday to play their part in the safest aircraft regulatory environment ever. For aircraft transponder and pitot-static system tests, as required by FAR 91.411 and 91.413, these certifications cannot be performed using automation. The inspector is required to perform leak checks and accuracy verification by commanding the air data test set to each set of the required set point, then visually verify the readings on the instrumentation and readouts. But, wouldn't it be nice to perform some of these functions at the same time, thereby saving an immense amount of time as compared to sequential testing operations with limited equipment.

The use of semi-automated pitot static test equipment offers significant advantages over manual testing methods for commercial aviation and maintenance repair organizations. Pitot static systems are critical components of aircraft, providing essential data for airspeed, altitude, and vertical speed measurements. Additionally, some newer aircraft equipped with SmartProbes can test other parameters, such as Angle of Attack (AoA). Ensuring the accuracy and reliability of these systems is paramount for flight safety and regulatory compliance. And doing them all simultaneously is a huge time-saver for the maintenance teams at MROs around the globe.

Read the full article just published in AVIATION MAINTENANCE MAGAZINE

Highlighting the Talented Interns of Raptor Scientific

Katherine Edminster, Jackson Hafley, Hayden Gunn Interning with the Thermal Systems Product Line in Huntsville, AL

At Raptor Scientific, we pride ourselves on our extensive range of test and measurement capabilities. From Thermal Systems to Mass Properties and Radar Cross Section Measurement Instruments to Air Data Test Systems and more, our innovative solutions ensure the highest levels of accuracy, safety, and product reliability. Our commitment to excellence extends to our internship program, where we nurture and develop the next generation of industry leaders. Today, we are excited to introduce you to some of our talented interns who are making significant contributions to our groundbreaking work.

Katherine Edmister

Katherine who is from Raleigh, North Carolina, is working in our Huntsville, AL office with our Thermal Systems team. She is earning high school credit for her work toward her "The Academy of Finance" classes. General Manager Cynthia Brown is mentoring her as she learns about operations and other day-to-day workings at the facility.

Jackson Hafley

Jackson, who interned with us in the spring, has returned to our Huntsville location for the summer. Picking up where he left off, Jackson is being mentored by Rob Haddoc, as he builds 64 series Heat Flux Transducers which will be delivered to our customers this month.

Hayden Gunn

Hayden, a college freshman, is working with John Dickson and our Thermal Systems Group. He began his internship in May and has hit the ground running, building thermocouples for our customers.

Sebastian Soja

A freshman at the University of California at Davis, Sebastian joined our Pressure & Temperature Systems group in Woodland Hills, CA for an engineering summer internship program. He will be working with the production engineering team supporting them on various projects involving hands-on testing of calibration products manufactured by the company.

Trevor Drescher

Trevor, who will enter his senior year at Bucknell University this fall, is a mechanical engineering major and also working toward his minor in physics. He is interning this summer at the Physical Properties

Systems group in Berlin, CT. Trevor is working with the engineering team on projects including support for mass properties measurements on the NASA lunar Viper rover, gimbal balance instruments, and various other activities.

The Future of Innovation

Our interns bring fresh perspectives, innovative ideas, and a dedicated work ethic that align perfectly with Raptor Scientific's mission of delivering unparalleled test and measurement solutions. Their contributions are not only valuable to our current projects but also essential to future advancements in the field.

We are proud to support and mentor these bright individuals, and we look forward to seeing their continued growth and success. Their passion and expertise are vital to ensuring that, for our clients, failure is not an option.

Raptor Scientific remains committed to fostering talent and driving innovation. Our internship program is a testament to this commitment, providing hands-on experience and professional growth opportunities. We are excited to witness the incredible achievements our interns will undoubtedly bring to the industry.

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