

FAB\$ and LAB\$S

Eravant: Renewing Itself for the Journey to 1 THz



Eravant has been renewing itself since Wendy Shu became CEO in 2019, taking the management reins from her father Yonghui. He formed the company with his wife in 2011 and still provides the technical leadership for the company. While the founding commitment to commercialize mmWave technology through technical leadership and great products has not changed, Wendy has focused on the culture, processes and facilities that will enable Eravant to sustain its growth and reputation for responsiveness. Her mission is to move the company from the “start-up” phase through the “grow up” phase.

Eravant’s renewal began with a name change, from SAGE Millimeter to Eravant. “Era” reflects a new beginning and “vant” comes from the word “savant,” a choice that honors prior brands WiseWave and SAGE Millimeter and conveys deep respect for learning and capability. The name and the values it reflects were intended to communicate internally as much as to customers, as a way to reinforce Eravant’s culture. As a company grows, the founders must delegate much of the responsibility and authority, trusting the culture will guide “the way we behave when no one is watching” and the many decisions made each day.

Another sign of Eravant’s renewal is its renovated facility, a 60,000 square foot build-out containing agile workstations, an ISO 8 clean room, two anechoic test chambers and a high performance lab capable of vector network analyzer measurements to 330 GHz, noise figure to 170 GHz and power to 1 THz. As much as being functional, the aesthetic was designed to inspire creativity and personal renewal, seen in the natural light, a library, indoor-outdoor café staffed by a barista and a basketball court. The basketball court is named “The Mamba Court” to honor local basketball legend Kobe Bryant.

Eravant’s mission is enabling future technology, which is rapidly extending beyond mmWave to THz. The new facility

will support the company’s growth from its base of more than 4,000 products spanning virtually all mmWave active and passive circuit functions, as well as test equipment. The test equipment portfolio includes Doppler radar target simulators and numerous frequency extenders for vector and scalar network analyzers and noise figure measurements. Eravant also offers waveguide calibration kits, noise sources and cost-effective ANSI/NCSL compliant calibration services for power meters and sensors and plans to add environmental test capabilities like shock/vibration and thermal vacuum testing.

With such a large product catalog, Eravant can quickly respond to custom requirements to 330 GHz, whether shifting the frequency band of an existing product or integrating multiple components into a subsystem. Attentive to market trends, Eravant has responded to the investment in low Earth orbit satellite constellations for broadband, IoT and imaging services by helping define industry standards for “commercial” satellite applications. Many of its products are already “space ready” because of the intentional mechanical design and materials used.

With its expanded facility and cumulative shipments now in the hundreds of thousands—some products flying in space—Eravant has a repeatable manufacturing capability with capacity to support production for most any test and measurement, communications, radar, scientific or space application. Its network of established manufacturing partners can support the ramp to volume production.

Following the new name and new facility, Eravant’s renewal continues. Wendy Shu says, “Happiness and a purposeful life are achieved through the pursuit of potential.” Eravant is pursuing its potential, looking to 1 THz for a new generation of leadership products, designed and built in a culture that will provide purposeful and fulfilling work for its growing team.

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