

Cambridge, MA – December 20, 2017

Uniqarta Awarded NSF Grant for Ultra-Fast MicroLED Placement

Laser placement technology enables 10,000X increase in chip placement speed

Uniqarta, Inc. has received a \$225,000 award from the National Science Foundation (NSF). These funds will support the continuing development of Uniqarta's Laser Enabled Advanced Placement (LEAP) technology for microLED display applications. MicroLED displays, the subject of intense interest from consumer electronics companies, have the potential to reduce power consumption by 90% and provide superior picture quality and lifespan. However, a key challenge this technology faces is that of economically placing huge quantities of microLEDs across a large area in a finely-spaced grid. With current-day methods, accomplishing this for a full HD display (6.3 million microLEDs) would take about a month. This project addresses that problem by demonstrating an ultra-high-speed method that can accomplish this in under one minute. This project addresses this problem by demonstrating an ultra-high speed method that can accomplish this in just a few minutes.

This project builds on prior Uniqarta work demonstrating the use of LEAP for larger, silicon integrated circuits and follows two previous NSF awards. It will focus on applying LEAP to microLEDs and demonstrate a placement rate exceeding 50 million units per hour. "This award supports our commercialization of LEAP and our vision of much faster electronics assembly involving substantially smaller components," said Ronn Klinger, Uniqarta co-founder and CEO."

About Uniqarta, Inc.

Uniqarta is a Cambridge, Massachusetts-based startup developing innovative component assembly solutions.

For more information about this NSF project visit <https://tinyurl.com/ybuwjoso>

For more information about Uniqarta, visit <https://www.uniqarta.com/>.

About MicroLEDs

MicroLEDs (Micro Light Emitting Diodes) are commonly defined as LEDs having dimensions less than 100 microns per side. They are extremely thin—less than 10 microns thick—and present unique assembly challenges relative to conventional, larger LEDs. Next-generation displays are expected to be comprised of large arrays of microLEDs with high-density spacing.

###

Media Contact

Ronn Klinger, Uniqarta, Inc.

781-617-548-8867

ronn.klinger@uniqarta.com