

## Press Release

July 13, 2017, by Chaos Prime



### **Chaos Prime Awarded SBIR Phase I. Grant For Breakthrough Wireless Industrial Edge Technology From National Science Foundation**

Sunnyvale, California – Chaos Prime, an early stage wireless industrial edge technology company, has been awarded a \$225,000 Small Business Innovation Research (SBIR) Phase I grant by the National Science Foundation (NSF) for its *Enhanced Physical-Layer Secure Wireless Chaotic Waveforms for Industrial Internet of Things (IoT)*.

“We are honored to have backing from the National Science Foundation,” stated Anthony Hill, CEO of Chaos Prime. “This grant will support the continued research and development of our core technology, leading to exiting new solutions for Industrial Automation and Control, Robotics, and other sectors such as Autonomous Cars.”

The digital transformation of industrial firms faces significant challenges deploying real-time production, industrial automation, autonomous systems, logistics and supply chain processes in an effective and economically viable way. Data explosion at the edge and an increasing demand for flexibly generated wireless sensor data cannot be solved by standard access technologies. Chaotic Waveforms provide inherent properties such as determinism, time synchronization and secure wireless data transfer between sensor devices and PLC’s, Access Points or Gateways. Chaotic waveforms stand to unlock the full potential of digital Industry 4.0.

“The National Science Foundation supports small businesses with the most innovative, cutting-edge ideas that have the potential to become great commercial successes and make huge societal impacts,” said Barry Johnson, Director of the NSF’s Division of Industrial Innovation and Partnerships. “We hope that this seed funding will spark solutions to some of the most important challenges of our time across all areas of science and technology.”

Chaos Prime’s research and development activities under this program are focused on developing reference designs and a prototype for the wireless edge that demonstrate the concept of highly reliable, ultra-secure, time-synchronized wireless protocol for Industrial IoT markets. The company will begin testing the prototype with leading manufacturing firms later this year and move to commercialization soon after.

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#### **About Chaos Prime Inc.**

Chaos Prime was founded in 2014 with the mission to bring an ultra-secure, highly reliable, time-sensitive wireless connectivity platform for Internet of Things (IoT) to industrial markets. The company’s breakthrough technology provides the synchronization of IoT sensor data collection to the Edge/Fog over wireless networks. Chaos Prime is a leading provider of chaotic waveforms technology. The company provides a solution stack that is fully interoperable with Industry’s unified system and solution architectures (OPC UA, TSN). - For more information about Chaos Prime: [www.chaosprime.com](http://www.chaosprime.com)

#### **About the National Science Foundation's Small Business Programs**

The National Science Foundation (NSF) awards nearly \$190 million annually to startups and small businesses through the Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) program, transforming scientific discovery into products and services with commercial and societal impact. The non-dilutive grants support research and development (R&D) across all areas of science and technology helping companies de-risk technology for commercial success. The NSF is an independent federal agency with a budget of about \$7 billion that supports fundamental research and education across all fields of science and engineering. [www.nsf.gov](http://www.nsf.gov)