

# CIOReview

The Navigator for Enterprise Solutions

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## 20 Most Promising Semiconductor Technology Solution Providers - 2019

**W**ith the evolution of silicon chips, the world has witnessed a rise in computational power. This, in turn, is driving the growth of technologies such as AI, VR, 5G, and IoT that find their application in smart cities, drone development, autonomous cars, and next-generation wireless networks. Semiconductor market holds tremendous value and a myriad of solution providers are pooling in with their unique offerings to cater to the market requirements.

Understanding the changing times, CIOReview has compiled a list of 20 most promising semiconductor technology solution providers for the year 2019 to guide organizations associated with the semiconductor sector in harnessing the computational power with innovative technology solutions to tackle today's challenges and increase revenue potential. Moreover, this edition will update them with the latest industry trends.

In the wake of these technology transitions, we are

glad to feature companies like Singapore-based UTAC on our annual list of most promising semiconductor technology solution providers. UTAC customers are part of the semiconductor supply chain, which for the most part, is geared toward the automotive sector with applications in CMOS sensors, security cameras, and vehicle parking assistance to name a few. Besides, our cover company Texas Instruments [NasdaqGS: TXN], develops analog integrated circuits (ICs) and embedded processors that find myriad of applications from connected cars and smart homes to self-monitoring health devices and automated factories.

With several innovative technological capabilities and success stories, the featured companies are continually proving their mettle in the field of the semiconductor. We hope this issue of the CIOReview helps you build the partnership needed to foster organizational growth and create better revenue streams.

We present to you CIOReview's "20 Most Promising Semiconductor Technology Solution Providers - 2019."



**Company:**  
UTAC

**Description:**

UTAC is a leading independent provider of semiconductor assembly and testing services for a broad range of integrated circuits

**Key Person:**  
John William Nelson  
CEO

**Website:**  
[utacgroup.com](http://utacgroup.com)



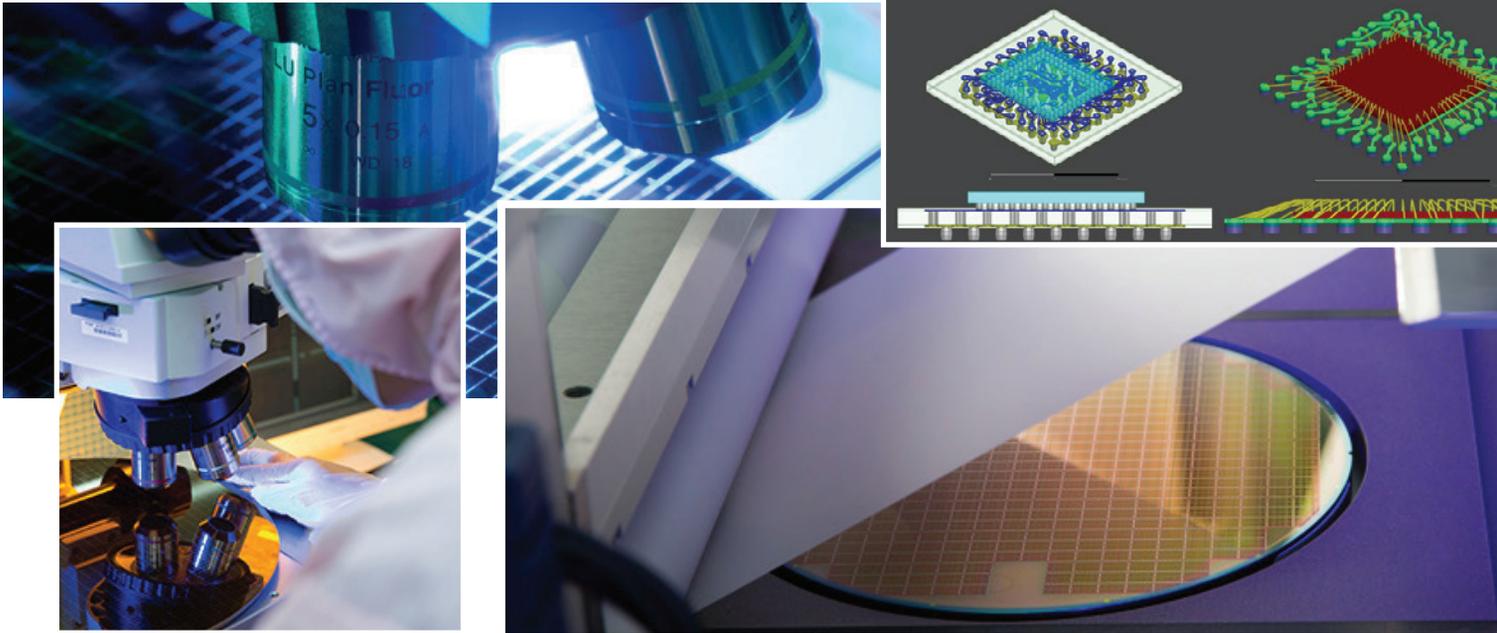
John William Nelson

# UTAC

## Superior Semiconductor Assembly and Testing Services

**A**t a very high level, the semiconductor supply chain is a channel that begins with design and terminates at delivery. Between these two ends, numerous processes and treatments are conducted to turn that small piece of silicon, into a piece of tech that would help a car drive itself. 2019 is officially pro smart car/EV, with auto manufacturers putting that tech to good use in personal mobility. Cars are en route to function like smartphones, complete with intuitive UIs and sensors, leveraging chips that have to be tested and packaged, specifically to ensure low failure rates and high resilience in the highly mission-critical application that is driving. “We are a semiconductor testing and packaging expert in the automotive industry, around the sensor technologies meant for EVs and other mobility applications,” states UTAC CEO, John William Nelson.

UTAC customers are part of the semiconductor supply chain, which for the most part, is geared toward the automotive sector with applications in CMOS sensors, security cameras, and vehicle parking assistance to name a few. However, in an industry where every link in the supply chain must be robust enough to deliver flawlessly, no matter



what the adversity down the line is, trust is an imperative factor for mutual success. “Several of the people that we work with, at the end of the day, may not build the project themselves, so nothing is a 100 percent certain in our industry. We engage with the customer, do the work, and provide the samples.”

Beyond all challenges is the drive toward zero defects, so that all of UTAC’s customers and their customers’ applications are seamless. As a major player that caters to the automotive sector, the company practices special process flows that have proven to create robust, reliable products and are able to work in difficult environments. UTAC has an in-house innovation and automation team to figure out how it can stay ahead of its competition, and enable it to maintain its ultra-low defect levels. UTAC treats customers and customer service very seriously and follows a fortified methodology to engage them. While generic applications involve standard packaging or testing, custom solutions for the automotive sector are where UTAC is in a league of its own. “Customers will come with an idea to measure a certain environment, humidity, gas, etc., which is not readily available in the market. They will do the chip design for that particular application and work with our engineers to do the package solution.” This is an essential aspect in automotive MEMS fabrication, as these chips are different from standard silicon devices because of their need for interaction with the external environment. With their reliability testing solutions, UTAC ensures product resistance against heat, cold, damp, and wet climates. The packaging also has to be able to allow the chip

## **We are a semiconductor testing and packaging expert with an expertise in the automotive industry, around the sensor technologies meant for EVs and other mobility applications**

to sense the external environment; a requirement that is relevant in auto sensors as well.

With a large engagement in an SMT type product which is powering revenue growth toward the second half of next year, UTAC is adding resources in engineering and RnD. UTAC is focusing on major programs that will help it support its customers, build partnerships, and engage long term with trust, to support client revenue. KPI driven, while engaging new clients from across the US, EU, and Asia, UTAC continues to be a trusted partner to long term clients as well. UTAC offers multiple solutions, and by being an outsourced assembly and test company, it is constantly learning multiple technologies in multiple markets for several years, which proves useful in other client projects. UTAC believes that it is their dedicated people who drive an organization toward its key deliverables and goals—a philosophy that it keeps close at heart. **CR**