

German Institute of Science & Technology-TUM Asia Pte Ltd  
10 Central Exchange Green, #03-01 Pixel Building, Singapore 138649

## News Release

Singapore, 30 September, 2013

### **Lantiq Asia Pacific and TUM Asia collaborate to embark on their first ever Industrial PhD Programme**

*Former TUM Asia graduate offered opportunity to conduct research and pursue a PhD*

Lantiq Asia Pacific and TUM Asia have partnered to embark on their very first project under the Industrial PhD Programme (IPP). The IPP is an initiative of the Singapore Economic Development Board (EDB) that aims to build a pool of postgraduate manpower in Singapore with critical R&D skill sets for roles in industry through providing postgraduate training in a corporate R&D environment.

This collaboration is a first for both Lantiq and the Technical University of Munich (TUM) – who is the awarding university for the PhD programme. An event at TUM Asia's Campus was held to mark its launch. This significant milestone was commemorated by Mr. Dan Artusi, CEO of Lantiq; Mr. Ulf Schneider, Managing Director, Lantiq Asia Pacific and Dr. Markus Wächter, Managing Director, TUM Asia.

Launched in 2011, EDB had purposed for this programme to develop a pool of postgraduate manpower that will be equipped with critical R&D skill sets for roles in their respective industries. Leveraging on the potential of this programme to nurture and develop skilled and competent individuals, Lantiq has also kick-started the programme with one PhD student – Mr. Shiva Shankar Subramanian, employee at Lantiq Asia Pacific was offered the IPP due to his outstanding performance at work. This is just the beginning of a successful collaboration and both Lantiq and TUM Asia are planning for more to come over the next 3 years.

Shiva was pursuing his Master of Science in Integrated Circuit Design at TUM Asia where he first joined Lantiq as an intern in May 2010. He later moved on to join the company as an employee in February 2012 with the System Development Team.

He spent most of his time designing and developing emulation methodologies for various Broadband Gateway chipsets and has made valuable contributions to Lantiq's system level verification. Many of his technical contributions are highly recognised and published in various conferences such as the regional IEEE conferences and the Cadence customer conferences.

"TUM Asia is proud to be the partnering institution in this IPP with Lantiq to provide Shiva with the necessary academic guidance and support in equipping him with the necessary skill sets to meet the increasing needs of the industry," affirmed Dr. Markus Wächter, Managing Director of TUM Asia.

Lantiq has always placed strong emphasis on technology innovation to modernise and revolutionise the way technologies can be used in the future. With the IPP in place, it is set to take research to the next level by providing an excellent opportunity for Shiva to pursue his post graduate degree in a corporate R&D environment under the direct supervision of Professor Andreas Herkersdorf, Chair for Integrated Systems of TUM.

Dan Artusi, CEO Lantiq: “I believe innovation mostly comes from young hardworking and talented people getting into interaction with experienced colleagues. We are delighted that our young colleague, Mr. Shiva Shankar Subramanian, had been selected to receive the honour of starting this great Industrial PhD Programme in Asia. This truly reflects the winning spirit of our company and the great expertise of the Lantiq engineers.”

The outcome of the research conducted on “Deep Packet Inspection” – a key state of the art technology in computer network security during the course of this IPP will be an immensely promising one that will contribute greatly to the semiconductor industry.

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### **Media Contacts**

#### **TUM Asia**

Dana Loh  
DID: 6777 7407 ext 127  
Email: [dana.loh@tum-asia.edu.sg](mailto:dana.loh@tum-asia.edu.sg)

#### **Lantiq Asia Pacific**

Teo Lee Eng  
DID: 6597 6885  
Email: [lee-eng.teo@lantiq.com](mailto:lee-eng.teo@lantiq.com)

### **About Technische Universität München (TUM)**

**Technische Universität München (TUM)** is one of Europe’s leading universities. It has roughly 500 professors, 9,000 academic and non-academic staff, and 32,000 students. It focuses on the engineering sciences, natural sciences, life sciences, medicine, and economic sciences. After winning numerous awards, it was selected as an “Excellence University” in 2006 and 2012 by the Science Council (Wissenschaftsrat) and the German Research Foundation (DFG). In both international and national rankings, TUM is rated as one of Germany’s top universities and is dedicated to the ideal of a top-level research-oriented entrepreneurial university. The university's global presence includes offices in Beijing (China), Brussels (Belgium), Cairo (Egypt), Mumbai (India) and São Paulo (Brazil). The German Institute of Science and Technology (GIST - TUM Asia), founded in 2002 in Singapore, is the first campus of a German university abroad.

[www.tum.de](http://www.tum.de)

## About TUM Asia

As the first German academic venture abroad, TUM Asia opened its doors in Singapore in 2002. German in its roots and Asian in its approach, TUM Asia combine an emphasis on industry readiness and innovation with a distinct dedication to be relevant to Asia and its development. TUM Asia has seen more than 300 global graduates come through its Master programmes, including graduates from Asia and Europe.

TUM Asia currently offers five Master of Science programmes. The Industrial Chemistry, Integrated Circuit Design, Microelectronics and Aerospace Engineering programmes are jointly offered with Nanyang Technological University (NTU) or National University of Singapore (NUS) – two of Asia's top universities – while the Transport and Logistics programme is offered exclusively by TUM Asia. Our international faculty hail from Germany and more, and their wealth of knowledge from various fields provide a spectrum of experience for the students to glean from.

Recognising the demand for engineering excellence in Singapore, TUM Asia partnered Singapore Institute of Technology (SIT) to offer Bachelor of Science programmes in Electrical Engineering and Information Technology and Chemical Engineering in 2010. It has also set up TUM CREATE in June 2010 to propagate research programmes, where scientists and researchers from both Germany and Singapore can work together for the advancement of science and technology. With the support of the National Research Foundation of Singapore (NRF), researchers at TUM CREATE focus on developing innovative systems that incorporate safety and reliability with functionality and energy efficiency in electric vehicles.

For more information, visit [www.tum-asia.edu.sg](http://www.tum-asia.edu.sg) or contact us at [marketing@tum-asia.edu.sg](mailto:marketing@tum-asia.edu.sg).

## About Lantiq

Lantiq has a unique capability to combine traditional Wireline technologies with leading-edge Internet Access and Home Networking technologies. Our semiconductor solutions are deployed by major telecom operators and they are found in home networks in every region in the world. Last year alone, Lantiq shipped more than **200 million mixed signal and digital devices** to leading OEMs, ODMs and specialized communications/broadband system manufacturers.

Lantiq's advanced SoC (System-on-Chip) solutions address a wide variety of technologies, including all flavors of DSL, Voice-over-IP, WirelessLAN (Wi-Fi), Optical Networking (Fiber) and Gigabit Ethernet, and have allowed Lantiq to become the number one supplier of integrated circuits for internet access network.

With its broad setup of worldwide R&D and distribution centers, Lantiq offers the opportunity for engineering students and graduates to enter a truly globalized world in a highly advanced Research&Development environment, working in multi-function and multi-cultural teams.

More Information about Lantiq is available on our [Website](#) or via [Twitter @Lantiq](#) and [YouTube](#).