

Weebit Nano to partner with NVM Research Group at Indian Institute of Technology Delhi on Neuromorphic ReRAM Project

13 November 2018 – Weebit Nano (ASX: WBT), the Israel-based semiconductor company seeking to develop and commercialise the next generation of memory technology, is pleased to announce that it will partner with the Non-Volatile Memory Research Group of the Indian Institute of Technology Delhi (IITD) to work jointly on a Neuromorphic ReRAM project.

The Non-Volatile Memory Research Group of IITD, a globally recognised research facility which specialises in different applications of advanced Non-Volatile technologies, has joined forces with Weebit Nano to research the use of Weebit Nano's SiOx ReRAM technology for certain types of neuromorphic applications, which are used for artificial intelligence. The group is led by Professor Manan Suri, a well-known researcher in the domain of artificial intelligence and the recipient of several prestigious international honours for his work in the non-volatile memory field, including the MIT Technology Review's Top Global Innovator Under 35 Award and the IEEE EDS (Electron Devices Society) Early Career Award-2018.

Artificial Intelligence (AI) is already changing the technology landscape and will play an increasingly significant role in future technology applications. Artificial Neural Network (ANN) and Deep Neural Network (DNN) technologies are expected to be significant drivers for artificial intelligence, given the way they mimic how the human brain learns and processes information. However, there is a great need to address the demand for special dedicated semiconductor hardware that can facilitate these technologies. ReRAM devices are very promising candidates for enabling high-density and ultimately scaled synaptic arrays in neuromorphic architectures as they are significantly smaller and more energy efficient than current AI data centres, and mimic the brain's biological computation at the neuron and synaptic level.

Professor Manan Suri said: "Advanced Non Volatile Memory such as ReRAM has great potential for future AI hardware. We are very excited to explore this cutting-edge research on Neuromorphic Hardware with Weebit Nano. Neuromorphic Hardware takes its inspiration from highly efficient brain-inspired computing and is essential for intelligent and sustainable future systems."



Professor Manan Suri of the Non-Volatile Memory Research Group of the Indian Institute of Technology Delhi



Contact

Office: +972-9-7797832

info@weebit-nano.com

www.weebit-nano.com



Coby Hanoch, CEO of Weebit Nano, said: “While we remain absolutely committed to commercialising our SiOx ReRAM technology as soon as possible, we are also ensuring we leverage its full capability across advanced applications through our university program. This collaboration with IITD is the first project under this framework, which aims to develop additional applications utilising Weebit’s ReRAM technology to accelerate AI and novel computing hardware architectures. We are very pleased to collaborate with a leading group of scientists from a prestigious establishment who are among the leading researchers in the world in this innovative field.

“This is an opportunity for Weebit’s technology to be at the forefront of the technology industry, in a cost-neutral way. Weebit Nano’s SiOx ReRAM has the capability to meet the requirements of the rapidly growing computer memory and storage demands that applications such as AI demand and therefore become one of the foundation building blocks of advanced computing for years to come”, said Mr Hanoch.

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For further information, contact:

Investors

Eric Kuret

Market Eye

P: +61 3 9591 8904

E: eric.kuret@marketeye.com.au

Media

Tristan Everett

Market Eye

P: +61 3 9591 8905

E: tristan.everett@marketeye.com.au

About Weebit Nano Limited

Weebit Nano is a leader in the development of next generation computer memory technology, and plans to become the new industry standard in this space. Its goal is to address the growing need for a significantly higher performance and lower power computer memory technology. Weebit Nano’s ReRAM technology is based on fab-friendly Silicon Oxide, allowing the company to rapidly execute, without the need for special equipment or preparations. The company secured several patents to ensure optimal commercial and legal protection for its ground-breaking technology.

Weebit Nano’s technology enables a quantum leap, allowing semiconductor memory elements to be significantly cheaper, faster, more reliable and more energy efficient than the existing Flash technology. Weebit Nano has signed an R&D agreement with Leti, an R&D institute that specialises in nanotechnologies, to further develop SiOx ReRAM technology.

For more information please visit: <http://www.weebit-nano.com/>



Contact

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