Nanusens recruits Dr. Phil Daniell as VP of ASIC Engineering

PAIGNTON, DEVON, UK, November 16, 2023 /EINPresswire.com/ -- Nanusens, a British electronics company that is re-inventing sensor technology, has appointed Dr. Phil Daniell as its VP of ASIC Engineering. He has over 25 years' senior design experience at Cypress, Maxim, GF Micro, Trameto and Phoelex.

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> *Dr Phil Daniell, VP of ASIC Engineering, Nanusens*

Nanusens CEO, Josep Montanyà, said, "Phil will play a crucial role in the next growth phase of Nanusens. We have solved the challenges of making MEMS-within-ASICs and Phil's huge experience of ASICs will ensure that we can support customers with very easy integration of our embedded sensors solutions into their ASICs."

Dr Phil Daniell added, "In my 25 years of silicon ASIC engineering, I found that the integrated MEMS technology innovated by Nanusens to be one of the most exciting and disruptive technologies that I have seen in my career. The prospect of implementing MEMS on the same die as more typical digital and analogue CMOS circuits is truly ground-breaking, and I was keen to work with Josep Montanyà and his team of experienced and dedicated engineers. I felt privileged to be offered a position of VP of ASIC engineering in such a dynamic start-up company with such a bright future ahead. I particularly look forward to growing the ASIC team to develop the product and IP portfolio to realise the potential of this cutting-edge technology."

Technology backgrounder

Nanusens is the only company to have perfected the building of sensors within chips. The sensors, called MEMS or Micro Electro Mechanical Systems, are built using the standard chip manufacturing techniques, called CMOS, that are used to build the electronic circuits on chips and at the same time as the rest of the chip circuitry. This means that chips with Nanusens embedded sensors can be made in any of the many CMOS fab in virtually unlimited numbers and with the high yields that are normal in such fabs with all the benefits of low unit costs that fab production provides.

A key new innovation by the company is development of a novel control circuit that measures

the capacitance changes within the sensor to provide sensor data. Like the sensor itself, this is also a digital IP block so it can be incorporated in the floor plan of the device's control chip, or ASIC, using standard EDA tools. This pairing for sensors and control circuitry as IP is unique as no other sensor solution can be turned into an IP block and made using standard CMOS techniques within the layers of the chip structure. This also significantly reduces the complexity and bill of materials costs for an AIoT device.


Dr Phil Daniell

Nanusens has already built accelerometer sensors into an ASIC chip using this unique technology. It is developing many other different types of embedded sensors such as gyroscope, magnetometer, pressure sensor, microphone, IR imagers and gas sensor as most of these are variants on the accelerometer design. These open up many other massive markets for its embedded sensors such as smartphones, earbuds, wearables, automotive, medical equipment and aerospace, to name but a few. As a result, the company has started a Series A funding round.

About Nanusens™ www.nanusens.com
Founded in 2014 by Dr. Josep Montanyà and Dr. Marc Llamas, Nanusens is headquartered in Paignton, Devon, England with Research and Development offices in Barcelona, Spain and Shenzen, China. It leverages the research and expertise developed by the founders' previous company, Baolab Microsystems. Nanusens is VC funded by Inveready (www.inveready.com), Caixa Capital Risc (www.caixacapitalrisc.es/en/) and Dieco Capital (www.dieco-capital.com), and several, ultra-high net worth investors. Nanusens has won the Disruptive Innovation of the Year and Emerging Technology Company of the Year at the 2019 TechWorks Awards, Best Campaign of the Year at the 2019 Elektra Awards and Design Team of the Year at the 2020 Elektra Awards. It is a finalist in the 2023 Elektra Awards Design team of the Year category.
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