



Excelitas Technologies to Present at MEMS and Sensors Technical Congress

Session to Detail the Development of a Lens-less Surface-Mount Device (SMD) Thermopile Solution to Detect Motion, Presence and Temperature from One Compact Unit

WALTHAM, Mass., May 03, 2017 – [Excelitas Technologies® Corp.](#), a global technology leader focused on delivering innovative, customized photonic solutions, today announced that Applications Engineer Prometeusz Jasinski will present “A Lens-less SMD Thermopile Solution for Near Field People Recognition in Today’s Thin Battery Operated Devices” at the [MEMS and Sensors Technical Congress](#) at Stanford University, May 10 – 11, 2017.

Jasinski’s presentation will detail Excelitas’ development of a new range of intelligent IR sensor, consisting of a single-pixel thermopile and a signal processing unit in one package, which is capable of detecting people in a range of up to 3 meters in a field of view of 120° without any optical system. Pyroelectric sensors in combination with a multi-focal fresnel lens have been the best value solution for most applications dealing with motion detection to date; however, this approach is reaching its limitations as devices continue to become smaller and more compact. The combination of an interrupt feature and a very low power consumption of only 50µW make the new sensor ideal for today’s thin battery operated handheld devices.

The key to the [CaliPile Multi-Function Infrared Sensor](#) is both high sensitivity and a smart internal background subtraction algorithm to suppress unwanted false triggers and separate the signal from the background. The solution combines motion detection, presence detection and temperature measurement in one compact digital thermal infrared package. It features selectable frequency filters and levels for setting the product into one of the three major operation modes, each of which can be set into individual use cases to achieve custom operations.

Jasinski’s presentation will take place on Wednesday, May 10 from 1:30 p.m. to 2:00 p.m. The complete conference agenda is available at: http://www.semi.org/en/sites/semi.org/files/data15/docs/MSTC%202017%20AGENDA_4.14.17.pdf.

For more information about Excelitas, visit www.excelitas.com.

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About Excelitas Technologies

Excelitas Technologies Corp. is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection and other technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer, semiconductor, industrial, energy and environment, as well as defense and aerospace applications. Excelitas Technologies is committed to enabling our customers’ success in their end-markets. Excelitas Technologies has approximately 5,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).



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