

# **Semiconductor Technology for Ultra Sensitive Imagers at SWIR (Short Range Infra Red)**

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## **Abstract:**

In this short talk I describe another facet of collaboration between industry and our Nano/Micro Electronics Center. The semiconductor technology for photo voltaic detection and imaging of few photons in the short wave infrared will be discussed and a variety of applications will be mentioned. Incorporation of nanotechnology, specifically nano-plasmons may lead to enhanced device performance. Lastly – if time permits, the impact of similar nanoplasmons on another photo voltaic device – namely the solar cell, will be mentioned.