



## **Dr. Vahid Akhavan from NovaCentrix to Present “Photonic Soldering Temperature Sensitive Components with High Temperature Solder Alloys” at SMTAI**

**AUSTIN, TEXAS – September 2021** – NovaCentrix today announced that Vahid Akhavan, Ph.D. will present during SMTA International, scheduled to take place Nov. 1-4, 2021 in Minneapolis, MN. Dr. Akhavan will present the paper entitled “Photonic Soldering Temperature Sensitive Components with High Temperature Solder Alloys.”

This work reports the latest finding on soldering temperature sensitive components, such as batteries and connectors, using standard high temperature off-the-shelf lead-free solder alloys (e.g. SAC305) utilizing the photonic soldering technique. These components cannot go through the oven reflow process for a variety of reasons.

Initial considerations and general design rules necessary for defining a photonic soldering process are detailed. This paper will highlight the advantages, provide an overview of the resulting solder joints and discuss the application space for the photonic soldering technology.

Dr. Vahid Akhavan is the Global Application Engineering Lead at Novacentrix, based in Austin. He joined NovaCentrix after receiving his Ph.D. degree in Chemical Engineering from the University of Texas at Austin. He has more than 15 years of experience in the field of printed and flexible hybrid electronics with strong emphasis on colloidal synthesis, inorganic chemistry and electronic device fabrication. His current research interests involve enabling electronic connections while circumventing thermal limitations of the device stack.



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