

New Senior Member!

By Jason K. Hui

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Nathaniel McCaffrey has been developing advanced imaging systems and image sensors for many varied applications for more than 15 years. His graduate studies were under the direction of CCD pioneer Dr. Walter Kosonocky at the New Jersey Institute of Technology (BSEE '91 MSEE '93 PhD EE '09 exp.) where he developed MWIR hyperspectral imaging radiometry technology for advanced military applications.

Nathaniel designed dozens of high speed/high resolution imagers and cameras at the David Sarnoff Research Center and led a groundbreaking team in the development of CMOS APS imagers in 1996. He and his teams developed early mobile phone cameras and high volume camera manufacturing processes and facilities.

Nathaniel moved to the Boston area and held leadership roles at SMaL Camera, Boston Scientific and SiOnyx, leading large research and product development teams and driving innovation in automotive and medical imaging devices and systems. At Boston Scientific he was responsible for overall image quality and design of their vision projects. His teams developed the world's first single use endoscope used in human diagnostic and therapeutic trials.

He has been awarded 20 US patents that have generated game changing products, spun off several successful startup companies and been directly responsible for over \$85 million in licensing revenue and venture funding. His work has been featured in the New York Times, USA Today and has been published in many journals, books and conference papers.

Nathaniel recently joined the NH Section and currently resides in Hampton Falls, New Hampshire. He enjoys running, bicycling and surfing at the Seacoast. He is also involved with Therapy Dogs International and participates with his Mastiffs and French Bulldogs.