Micro-LED Maturation from beachhead in AR/VR to TAM of entire Display Market

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Abstract

AR glasses that provide the size, weight, power, performance, and cost required for successful consumer adoption are the key beachhead where dense Micro-LED arrays have a clear advantage and market opportunity. Mojo Vision is developing full Micro-LED displays based on hybrid bonding of 300mm GaN/Si blue LEDs to 300mm CMOS and using quantum dot conversion for red and green. Technical device results and important progress in development of a robust 300mm High-Volume-Manufacturing (HVM) supply chain will be discussed. Beyond the AR/VR beachhead, Micro-LED has the potential to expand to large format displays and step by step disrupt the entire $160B+ display industry providing a generational opportunity for early enablers of the 300mm HVM supply chain.

Bio

Paul is currently SVP for Display at Mojo Vision and inspired by the opportunity to work with the Mojo Vision team to reimagine how the people access, view and share information beyond current mobile platforms.

Paul has a PhD in Physics from MIT, has been contributing to LED related research, product development and management for over 25 years and has contributed on more than 50 US patents.

Paul is passionate about pushing the envelope of LED technology and has been a leader in developing LEDs that form the foundation for several LED market firsts including; first high volume 1W LED (Lumileds Luxeon 1, 2000), first functional LED Flash (Sony Ericsson K700, 2004), first LED backlit LCD TV (Sony Qualia 005, 2004), first LED Automotive High Beam/Low Beam (Audi R8, 2007), first "L-Prize" 60W LED Bulb (Philips, 2011) & first Regulated Automotive LED Signaling Bulb (2016) among others.