The past and future of roll-to-roll process in making electronic devices

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Abstract: Roll to roll (R2R) process has been used for years, mainly for printing books, newspapers, and advertising flyers. It was not imaginable that this conventional process can be used for making so-called high-tech devices. Until the emergence of E-paper, people successfully utilized this conventional process for making displays at very low cost. In this informal seminar, I would like to share the experience about what we have learnt from developing E-paper, and discuss with you about how this knowledge can be leveraged for future wearable electronics and beyond.

Bo-Ru (Paul) Yang received the B.S. and M.S. degrees in Department of Material Science and Engineering from National Chiao Tung University (NCTU), Taiwan, in 2002 and National TsingHuaUniversity, Taiwan, in 2004, respectively. In 2008, he received his Ph.D. in Institute of Electro-Optical Engineering from NCTU, Taiwan, where he also finished an MBA program simultaneously. During his time studying Ph.D., he received the scholarships to study fast-switching LCD at University of Oxford, UK in 2007 and Tohoku University, JP in 2008 as a doctoral researcher. He was working with SiPix during 2009 ~ 2012, on the fundamental mechanism and IP strategy of electrophoretic display at the research center located in California and product development at the manufacturing site located in Taiwan, where he was promoted as an R&D manager. Since Dec. 2012, he joined Sun Yat-Sen University, China, as an associate professor, researching on the flexible electronics and displays.

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