Navigating Internet Of Things (Iot) Era Architectures

Scott Moody

As thousands of small devices are populated throughout the environment, new smart phone enabled data patterns emerge. The potential has never been greater for realizing that smart house vision, or smarter energy, factories, animal care, or smarter shopping. Now entering a room, like a museum or smart house, one just discovers and absorbs all the available information in actionably form. What architecture approaches will help deal with the scale and flexibility of these new systems? For example do we just connect up wireless light switches to wireless lights; automating what we do with manual wires? Or is more flexibility and crowd programming needed? This course provides context for how these trending concepts, such as IoT, fit into an architectural framework consistent with time honored computing approaches. This is a new Computing Era where IoT will be part of your system development, such as a smarter factory, even if the end system like flight controls might not use IoT.

Scott Moody is a computer scientist with a MS and BS from the early days of the UW's Computer Science department. He spent 31 years at Boeing earning the Associate Technical Fellow honor for his involvement in exciting projects such as Ada, OMG, SBInet, FCS, AWACS, P8, DARPA Stars, Autocode and IoT flight diagnostics.

Through writing, teaching and international presentations, Scott traces his involvement in the rapid evolution of computing from punch cards, through graphic displays, object oriented and real-time programming languages, distributed computing, smart phones, and of course the internet.

Other than energetic computer science discussions, Scott also enjoys time with his family, their many dogs, travel, photography and outdoor recreation.