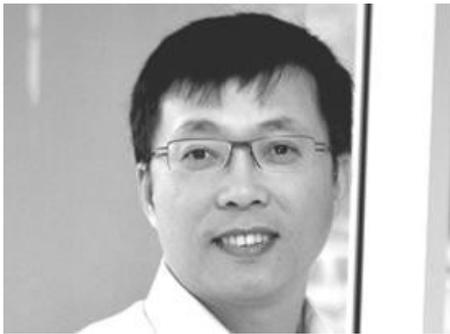


The Next Generation Medical Device Design



Interview with: Allen Lee, CEO & President, American Portwell Technology, Inc.

“For medical devices designers, selecting the right embedded computer solution for their next generation design is a very important decision,” states Allen Lee, CEO & President at **American Portwell Technology**. “It is critically important to select the right embedded solution provider with proven expertise in supporting OEMs in this challenging medical market.”

American Portwell Technology, Inc., is an American embedded computer solution provider at the **marcusevans Medical Device Manufacturing Summit Spring 2017** taking place in Pasadena, California, June 19-20, 2017.

What key criteria does a medical device manufacturer use in selecting the “right” embedded computer solution provider?

The first that comes to my mind is a proven track record in designing systems for a broad range of medical applications. The medical device landscape is a fragmented market with a diverse range of applications in which the requirements can differ greatly. Whether it is a clinical diagnostic system, imaging system (x-ray, CT scan) or a surgical robotics system, the requirements of the system vary based on the feature set and performance required by its specific target market application.

Where does an embedded solution provider’s knowledge of medical computing applications rank?

At the top of key factors in a supplier selection process. A good embedded solution partner should have extensive knowledge of computing technology to help OEM manufacturers optimize their design, provide ideal configuration of form factors, CPU, memory, storage, and I/Os. A qualified solution provider must have strong ties with innovative processor technology providers like AMD and Intel®, recognized leaders in their field. Their advanced microprocessor architecture and technology help drive the innovation and the growth of ecosystem partners supporting both their hardware and software development.

How important is it for an OEM manufacturer to receive long lifecycle support from an embedded solution provider?

This is a must-have. In comparison to other vertical market applications, medical devices have very long product lifecycles. A contributor to the long life is the time it takes to gain FDA approval and the demand for instrument stability in critical operating environments related to human life. Most medical device manufacturers require that embedded computing solutions sustain the same long life span as the device itself, or longer, when aftermarket support is considered. So, longevity is crucial to medical device projects.

With so many medical applications in diverse markets, any last words for helping medical manufacturers select the “right” embedded computer solution partner?

The “right” embedded solution provider must have a comprehensive product portfolio to offer to medical manufacturers. They must not be limited just to CPU technologies and related peripherals, but must also be able to recommend how to partition the

required computing functions based on the engineering tradeoffs and assist in selecting the most appropriate solution for the targeted medical application. Designers of medical applications will need to make decisions on an embedded computing solution between modular computers and off-the-shelf Single Board Computers (SBCs). A solution provider must also have the ability to customize a system to a medical manufacturer’s specification.

Last but not least, the “right” embedded solution provider must be ISO 13485 certified. With its product development and manufacturing process compliant with ISO 13485, the solution provider demonstrates its ability and commitment to provide medical related products and services that consistently meet customer and applicable regulatory requirements with high quality and traceability.

Longevity
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to medical
device
projects

marcus evans Summits deliver peer-to-peer information on strategic matters, professional trends and breakthrough innovations.



Please note that the Summit is a closed business event and the number of participants strictly limited.

About the Medical Device Manufacturing Summit Spring 2017

The Medical Device Manufacturing Summit is the premium forum bringing together senior medical device manufacturing executives and leading solution providers. The Summit offers an intimate environment for focused discussion on cutting edge technology, strategy and implementation of solutions to forward-thinking medical device companies interested in staying ahead of the market.

www.medicalmanufacturingsummit.com

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About American Portwell Technology, Inc.

American Portwell Technology, Inc. is an American company founded in 1999 committed to high standards and engineering excellence in designing and manufacturing single board computers (SBC), embedded computers, specialty computer platforms, rackmount computers, communications appliances and human-machine interface (HMI). American Portwell provides a great selection of embedded computing solutions dedicated to a variety of medical applications, including: medical modality instruments; clinical diagnostic instruments; surgical imaging management systems; pharmacy automation; point-of-care devices; ultrasound systems; computer-aided diagnosis and therapy; healthcare self-service kiosks; and healthcare IT network appliance platforms.

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