

Product Development Methodologies for Success

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Abstract

Engineers can increase their ability to innovate, plan, and develop new computer and networking products that succeed in the marketplace by following product development methodologies, using current standards and practices, and continuing education. They can also facilitate success by understanding how marketing, engineering, and business financial planners work together in a company to plan products that address customer needs and expectations plus devise a schedule and budget that will lead to company profit.

“Product Development Methodologies for Success!” will empower you to:

- Position yourself to be innovative by planning continuing education on current technologies, standards, and practices to fuel creative thinking.*
- Position your company for success by using your creative potential to plan new products that address customer needs well.*
- Improve product quality by addressing customer needs and expectations.*
- Succeed at producing quality products on time by following a structured methodology to break the execution phase down into steps.*
- Increase peer interaction to have fun and learn from others through formal and informal peer discussion and review.*

Students will gain insight into the corporate world they will be working in after graduation.

BIOGRAPHY

Jerry Bellott is an electrical engineer with more than 27 years experience designing products for the PBX, data networking, cellular, broadband switch, and computing industries, including 19 years working for AT&T/Lucent Technologies' Bell Laboratories. Mr. Bellott designed the first PCB using a microprocessor with on-chip FLASH memory, the DSP1627F, at Bell Labs. The board also included the Bell Labs SCEPTRE 2G cellular IC chipset, and was used by Motorola engineers as they designed the StarTac, the world's first truly compact, modern size flip-top lid cell phone. Mr. Bellott also provided mixed signal IC applications engineering support in a marketing role for the PALM company as they designed the world's first internet enabled handheld unit using a GUI and application icons. As Sr. Systems engineer at ViaGate Technologies in 2000, Mr. Bellott co-designed the world's first fiber to the basement broadband switch with SONET fiber and VDSL interfaces, providing services to up to 240 offices. In 2004, Mr. Bellott designed circuits using the 1GHz, 64 MAC MathStar IC for a Compact PCI circuit board at Valley Technologies. Since then, Mr. Bellott has designed system hardware and software tests for embedded products and written documentation for two central NJ technology companies. Mr. Bellott has an MSEE from Georgia Tech (1980) and a BSEE from West Virginia University (1979). Mr. Bellott served as Vice Chair of the Princeton Chapter of the IEEE Signal Processing Society from 2008 to 2012, and is a Computer Society Member. Contact info: dgbellott@ieee.org