

Flash Based uC Workshop A2

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Sales Director Asia

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Biography- Jim Panfil

- Atmel- Sales Director Atmel Asia
 - 2004 – Present
- Atmel- Director Product Development Flash Microcontrollers
 - 1997-2004
- LSI Logic- VP Marketing Europe
 - 1990-1997
- Intel- Marketing Director Microprocessors
 - 1978-1990

Atmel Flash uC

- Support Three Architectures
 - Legacy 8-bit 8051
 - 8-bit AVR
 - 16-32-bit ARM
- Atmel Bring Customers Solutions Three Ways
 - Building Block in ASIC Library
 - Standard Products
 - Application Specific Standard Products (ASSP)
 - Smart Cards, Motor Control, Zigbee, CAN,
 - Battery Management, Lighting Ballast

AVR Value Proposition

- Same Instruction Set across entire Family
- Code Density
- 8-100 pin Packages
- Low Leakage Process
- Zero Current 32KHz Oscillator
- On Chip Debug – Debug Wire
- One Tool Chain
 - Architecture Simulator- AVR Studio
 - ICE- JTAG ICE
 - C- Compiler- GNU and Third Party Suppliers
 - In System Programmer- AVRISP
 - 128Kb in 12 Seconds

Product Portfolio

- 1KB to 256KB Flash Program Memory
 - Rich Peripheral Set and a Wide Range of
 - Operating Voltage
 - 1.8V-5.5V
 - Power Consumption
 - 1.8V Power Save Mode 4.5uA,
 - 1.8V Power Down Mode 100nA
 - Temperature Range
 - Automotive Temperature -40C to +150C
 - Clock Frequency
 - 20MHz