



Technology Day Milwaukee - September 9, 2010

Time	Session	Embedded Processors	Wireless	Medical	Motor Control	Power Supply Design – SEM1900
8 to 9 a.m.	Registration & Booths/Continental Breakfast					
9 to 10 a.m.	1	ARM – Cortex A, R, M Overview	RF Basics, Tools and Getting Started	Market Drivers and Technology Enablers for Wireless Connectivity in Medical	Intro to Motors and Motor Control	Incorporating Active-Clamp Technology to Maximize Efficiency in Flyback and Forward Designs and Under the Hood of Flyback SMPS Designs
10 to 10:30 a.m.	Break					
10:30 to 11:30 a.m.	2	Stellaris® ARM-Based MCUs: Communications Introduction	Range Considerations for RF Networks	Sensor Signal Conditioning and Interface for Medical	Digitizing Your Motor Control Design	SEM1900: Designing an LLC Resonant Half-Bridge Power Converter
11:30 a.m. to 1 p.m.	Lunch/Booths					
1 to 2 p.m.	3	Considerations for Choosing the Right TI ARM-Based Microprocessor	Fundamentals of Antenna Design by LSR	Discrete and Integrated ECG Design Concepts	Field-Oriented Control of Permanent Magnet Motors	SEM1900: Power Factor Correction Using the Buck Topology – Efficiency Benefits and Practical Design Considerations and New Product Offerings from Texas Instruments
2 to 2:15 p.m.	Break/Booths					
2:15 to 3:15 p.m.	4	Developing a Portable Medical Imaging Application on an OMAP™ SoC	Frequency-Hopping Software Solution for TI LPRF Radios	Passive Low Frequency Wireless (PaLFI) Solutions for All Applications, Including Medical	Digital Motor Control MCUs	SEM1900: Designing Magnetic Components for Optimum Performance in Low-Cost, AC/DC Converter Applications
3:15 to 3:30 p.m.	Break/Booths					
3:30 to 4:30 p.m.	5	Introduction to Code Composer Studio™ IDE v4.0	Energy Harvesting by Cymbet	Contactless Charging	Development and Simulation of Control Algorithms Using MATLAB Targeted for TI C2000™ Microprocessors	SEM1900: A New Dual Half-Bridge, DC/DC Converter with Wide-Range ZVS and Zero Circulating Current and Designing a Solar-Cell Driven LED Outdoor Lighting System – A Comparison of Digital and Analog Power Control Solutions

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