

Cypress PSoC Application Note Description & Relevancy to BITS Course Work

Application Note Number	Description	Relevance to Course	Author	Associated Application Notes
AN2408	CapSense - Migrating from CSR to CSD		Ted Tsui	AN2041, AN2233a, AN2292
AN2407	USB and CapSense - PC Compatible USB CapSense Matrix Keyboard		Michael Macovetskyi, Ruslan Bachynskyy, Ryshtun Andrij	AN2233a, AN2292, AN2318, AN2352, AN2355
AN2405	Power - PSoC® IO Power Structure - Determining VOH and VOL at Partial Load		Dennis Seguine	
AN2401	Communication - Using the USBUART User Module	EEE GC 383 -Communication Systems	Svyatoslav Paliy, Vadym Grygorenko	
AN2399	Communication - Software Implementation of Universal Asynchronous Transmitter	EEE GC 383 -Communication Systems	Vadym Grygorenko, Volodymyr Sokil	
AN2397	CapSense - CapSense Data Viewing Tool		Vadym Grygorenko	AN2401, Using the USBUART User Module
AN2395	Thermistor Lookup Table Generation Tool		Petro Sasnyk	AN2017, AN2107, AN2260, AN2314
AN2404	General - PSoC® Implementation of a Newspaper Vending Machine Controller		Anant Aggarwal, Neha Joshi, Sachin Keswani, Shruti Richa	
AN2403	CapSense - Signal-to-Noise Ratio Requirement for CapSense Applications		Mark Lee	AN2233a, AN2277, AN2292, AN2318, AN2352, AN2355, AN2360, AN2394
AN2402	PSoC® Development Tools Selector Guide		N/A	
AN2398	CapSense - Waterproof Capacitance Sensing		Victor Kremin and Ruslan Bachunskiy	AN2352
AN2394	CapSense - CapSense Best Practices		Mark Lee	AN2233a, AN2277, AN2292, AN2318, AN2355, AN2360, AN2403
AN2393	CapSense - Migrating from CSR to CSA		Ted Tsui	AN2233a, AN2041
AN2392	Multi-Context Switch Event Kernel		Uroš Platiše	
AN2389	Display and USB - Graphic OLED Display Demonstration Board	EEE GC 383 -Communication	Michael Macovetskyi	AN2356

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	With USB Interface	Systems		
AN2388	USB - Voice Player with ADPCM Decoder	EEE GC 383 -Communication Systems	Ruslan Bachinskyy	
AN2385	Phase Controller with Current Limit	EEE GC 424 – Microelectronic Circuits	Kurt Labes	AN2025
AN2384	Using the MAC (multiply/accumulate) to compute scalar product of vectors	ES GC 263 Microprocessor Progr	Pengbo Sun, Alex Doboli, Eddie Currie	AN2032, AN2038
AN2383	Migrate from register oriented microprocessors to PSoC		Zoran Momirovic	
AN2380	Universal Wide-Range Signal Generator		Petro Kobluk	
AN2376	USB and Display - Four-Wire, Resistive-Type Touch Screen with USB Interface		Svyatoslav Paliy	AN2173
AN2375	General - Build a simple divider SYSCLK/4 using the digital features of the global digital interconnect (GDI) and row digital interconnect (RDI) on a PSoC® device		Wojciech Szyfelbein	
AN2374	Timers and Counters - Pulse counting with PSoC	EEE GC 383 -Communication Systems	J. Jayapandian	
AN2372	LED Testing and Control Using PSoC®	ES GC 263 Microprocessor Progr	David Johnson	
AN2369	Design Aids - Control an I2C Slave Device from PSoC Express		David Cooper	
AN2367	Analog - Differential Amplifier		Dave Van Ess	
AN2365	Design Aids - PSoC Express Timing App. Examples		Dave Funston	
AN2363	Design Aids - Sensor Calibration with PSoC Express™		Dave Funston	
AN2362	Capacitive Sensing - Wireless USB Remote Control		Oleksandr Karpin	
AN2361	USB-Powered Battery Charger for NiCd/NiMH Batteries		Svyatoslav Paliy	AN2041, AN2107, AN2203, AN2260, AN2267, AN2267a
AN2360	Capacitive Sensing - Power Consumption and Sleep Considerations in Capacitive Sensing Applications		Mark Lee	
AN2359	Integrating an I2C Bootloader into PSoC Express		Dave Funston and M. Ganesh Raaja	AN2273, AN2273a
AN2358	Manchester Decoder Using PSoC®	EEE GC 383 -Communication Systems	Philippe Larcher	AN2281, AN2325

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AN2357	Power - Multi-Channel Fan Speed Control System		Volodymyr Sokil	AN2180, AN2246, AN2249, AN2314
AN2356	User Interface - Graphics Library for OSRAM's OLED Displays		Valeriy Kyrynyuk	AN2348
AN2355	Capacitance Sensing - Calibrating CapSense with the CSR User Module		Darrin Vallis	AN2233a, AN2277, AN2292, AN2318
AN2354	Power Management - Practical Application of the PSoC(R) Sleep Timer		Darrin Vallis	
AN2352	I2C-USB Bridge Usage		Valeriy Kyrynyuk	AN2304, CY3240-I2USB, CY3242-IOX
AN2351	Design Aids - Implementing Inter-Device Communications with PSoC Express™	EEE GC 383 -Communication Systems	David Cooper	AN2261
AN2349	Power Management - Increasing Output Power of a Switch Mode Pump		Vadym Grygorenko	AN2097, AN2180
AN2348	Tilt-Compensated Digital Magnetic Compass with Built-In Temperature Sensor and OLED Graphics Display		Vadym Grygorenko and Valeriy Kyrynyuk	AN2267, AN2272, AN2291, AN2314, AN2356
AN2347	Communication - PSoC(R)-Based Low-Cost, Intelligent Network: Sensor Applications	EEE GC 383 -Communication Systems	Andrew Smetana	AN2346
AN2346	Communication - PSoC(R)-Based Low-Cost, Intelligent Network: Physical and Data Link Layers	EEE GC 383 -Communication Systems	Andrew Smetana	AN2347, AN2086
AN2345	General - Simple Method to Generate Digital Signals with Variable Phase Shift Between		Victor Kremin, Ryshtun Andrij	
AN2344	Power - Multi-Cell Li-Ion/Li-Pol Battery Charger with Cell-Balancing and Fuel Gauge Function Support		Oleksandr Karpin	AN2180, AN2258, AN2294, AN2314
AN2343	Display - LCD Driver Based on the HT1621 Controller	EEE GC 491 – Special Projects	Andrew Smetana	AN2228
AN2342	Calculation - Building a Calculator with PSoC		Andrew Smetana	AN2343
AN2341	Algorithm - ArcTan as Fast as You Can		Dave Van Ess	
AN2340	Power Management - MAX1582 White LED Driver Emulation with PSoC®		Andrey Magarita	AN2041, AN2203, AN2316, AN2317, AN2331
AN2339	Design Aids - Storing Calibration Factors into Flash Memory Within a PSoC Express(TM) Application		Dave Funston	AN2015

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AN2338	Algorithm - Fast and Compact Unsigned Binary to BCD Conversion		Eugene Miyushkovich, Ryshtun Andrij	AN2112, AN2113
AN2336	Simplified FSK (Frequency Shift Keying) Detection	EEE GC 383 -Communication Systems	Dennis Seguine	
AN2335	Implement a PSoC (8-pin DIP) device suitable for sensing and controlling analog events from 0 to 5 volts		J. Jayapandian	
AN2334	Power Management - Multi-Cell Battery Voltage Measuring Device		Ruslan Bachinsky	AN2041, AN2203
AN2333	Embedded State Machine Design for PSoC™ using ‘C’ Programming (Part III of III)	EEE GC 491 – Special Projects	Somsak Sukittanon	AN2329,AN2332
AN2332	Embedded State Machine Design for PSoC™ using ‘C’ Programming (Part II of III)	EEE GC 491 – Special Projects	Somsak Sukittanon	AN2329,AN2333
AN2330	USB-Powered Li-Based Battery Charger		Svyatoslav Paliy	AN2107, AN2267, AN2267a
AN2329	Embedded State Machine Design for PSoC™ using ‘C’ Programming (Part I of III)	EEE GC 491 – Special Projects	Somsak Sukittanon	AN2332, AN2333
AN2328	FIR Filtering with Application to Fast Hilbert Transform	EEE GC 415 – Digital Signal Processing	Somsak Sukittanon, Stephen Dame	
AN2326	Hardware Sequence Bitstream Recognizer	EEE GC 383 -Communication Systems	Volodymyr Sokil	AN2249
AN2325	Serial Bit Receiver - HW Manchester Decoder	EEE GC 383 -Communication Systems	Volodymyr Sokil	AN2091,AN2249,AN2281,AN2236
AN2323	Build a PSoC(TM) Emulator into Your Board		Eddy Chu	
AN2321	Ground Isolation for ICE Debugger		JB Foreman	
AN2320	Offset Compensation for High Gain AC Amplifiers		Vadym Grygorenko	
AN2318	EMC Design Considerations for PSoC CapSense(TM) Applications		Mark Lee	
AN2317	MAX1698 White LED Driver Emulation with PSoC™	EEE GC 491 – Special Projects	Andrey Magarita	
AN2316	MAX1599 White LED Driver Emulation with PSoC(TM)		Andrey Magarita	
AN2315	3-Channel Filterbank in PSoC(TM)	EEE GC 415 – Digital Signal Processing	Somsak Sukittanon, Stephen Dame	
AN2314	Thermistor-Based Temperature Measurement in Battery Packs		Oleksandr Karpin	AN2017,AN2258,AN2260,AN2267,AN2

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				294
AN2313	Pulse Oximeter		Serhiy Matviyenko	
AN2312	nth Order IIR Filtering Graphical Design Tool for PSoC(TM)	EEE GC 415 – Digital Signal Processing	Somsak Sukittanon, Stephen Dame	
AN2310	Comparator with Independently Programmable Hysteresis Thresholds		Dave Van Ess	
AN2309	Low-Cost, Two-Cell Li-Ion/Li-Pol Battery Charger with Cell-Balancing Support		Oleksandr Karpin	AN2107, AN2258, AN2267, AN2294
AN2308	Automotive - Remote Keyless Entry Car Alarm with Floating Code		Volodymyr Sokil	AN2268, AN2307
AN2307	Hardware Random Number Generator	EEE GC 383 -Communication Systems	Volodymyr Sokil	
AN2305	SPI-LIN Slave Bridge	EEE GC 383 -Communication Systems	Valeriy Kyrynyuk	
AN2304	I2C Port Expander with Flash Storage	EEE GC 383 -Communication Systems	Andrew Smetana	
AN2302	6-Channel DMX Dimmer		Petro Kobluk	
AN2301	Tachometer using a Switched Reluctance Rotation Sensor	EEE GC 491 – Special Projects	Victor Kremin	
AN2300	Non-Volatile Memory Controller with Real-time Clock		Svyatoslav Paliy	
AN2298	PSoC(TM)-Based USB Device Design By Example		John Hyde	
AN2294	Li-Ion/Li-Polymer Battery Charger with Fuel Gauge Function		Oleksandr Karpin	AN2108, AN2258, AN2267, AN2314
AN2292	Layout Guidelines for PSoC(TM) CapSense(TM)		Ryan Seguine, Mark Lee	
AN2291	Ultrasonic Vehicle Parking Assistant with LIN 2.0 Interface		Valeriy Kyrynyuk	
AN2287	Laser Power Meter, the PSoC(TM) Way		J. Jayapandian	
AN2286	Simulating a 555 Timer with PSoC(TM)	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2284	Sensing - Low-Cost EKG Pulsometer		Serhiy Matviyenko	AN2158
AN2283	Measuring Frequency	EEE GC 383 -Communication Systems	Dave Van Ess	
AN2282	Resonant Bridge Oscillators for Piezoelectric Buzzers		Andrey Magarita	

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AN2281	Manchester Encoder Using PSoC(TM)	EEE GC 383 -Communication Systems	Ganesh Raaja	
AN2279	Dynamic I2C Addressing Implemented with I2C Hardware User Modules	EEE GC 383 -Communication Systems	Chris Hogan	
AN2278	Automotive BLDC Motor Control for PSoC(TM)	EEE GC 371 - EMEC	unknown	
AN2277	Capacitive Front Panel Display Demonstration		Chris Hammer	AN2233A,AN2292
AN2276	Binary Weighted Single-Pole IIR Low-Pass Filters	EEE GC 415 – Digital Signal Processing	Dave Van Ess	AN2099
AN2274	Dynamic Reconfiguration Using 'C'	EEE GC 491 – Special Projects	Arnold Motley	
AN2273a	I2C Bootloader for PSoC(TM), 78-Byte Packet Transfer	EEE GC 383 -Communication Systems	Ernie Buterbaugh	AN2273
AN2273	I2C Bootloader for PSoC(TM), 16-Byte Packet Transfer	EEE GC 383 -Communication Systems	Ernie Buterbaugh	
AN2272	Magnetic Compass with Tilt Compensation		Vadym Grygorenko	
AN2269	Implement 9-Bit Protocol on the PSoC(TM) UART	EEE GC 383 -Communication Systems	Aubrey Kagan	
AN2268	Forward Error Correction using a Wireless USB Radio System-on-Chip (SoC) Modem	EEE GC 383 -Communication Systems	Andrew Smetana	
AN2267a	Single Cell Li-Ion Battery Charger using CY8C21xxx		Svyatoslav Paliy	AN2107
AN2267	Single Cell Li-Ion Battery Charger	EEE GC 491 – Special Projects	Svyatoslav Paliy	AN2107,AN2041
AN2266	16-Bit PWM/PWM-DACs using One Digital PSoC(TM) Block	EEE GC 383 -Communication Systems	Brian Miller	AN2199
AN2261	PSoC Express(TM) Primer: Introduction		Jon Pearson	
AN2260	Rapid NiCd/NiMH Battery Charger and DC Brushed Motor Controller for Autonomous Appliances	EEE GC 371 - EMEC	Victor Kremin	AN2041,AN2107,A N2168,AN2246
AN2258	Cell Balancing in a Multi-Cell Li-Ion/Li-Pol Battery Charger		Oleksandr Karpin	AN2107,AN2180
AN2257	Automotive Electromagnetic Compatibility (EMC) and PSoC	EEE GC 491 – Special Projects	William Parnis	
AN2256	Converting Projects from CY8C22x13 to CY8C24x23A		Jeff Dahlin	
AN2254	Low-Cost, RS-232 Level Translator	EEE GC 491 – Special	Vitaliy Samusko	

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		Projects		
AN2253	Intelligently “Bit-Bang” Debug Data		Michael Pail	
AN2252	LED Digit Displays - Large Quantities	EEE GC 364 – Analog Electronics	Luis Espinal	
AN2250	ECG Meter using PSoC(TM)	EEE GC 491 – Special Projects	Jens Altenburg	
AN2249	PRS User Module as a One-Shot Pulse Width Discriminator and Debouncer	EEE GC 383 -Communication Systems	Ilya Mamontov	AN2108,AN2231
AN2247	Low CPU Consumption DTMF Detector	EEE GC 383 -Communication Systems	Rusian Bachinskyy	AN2122,AN2038,A N2027
AN2246	PWM Source - High Frequency, High Resolution	EEE GC 383 -Communication Systems	Victor Kremin	AN2041
AN2245	PWM Source - High Frequency, High Resolution	EEE GC 383 -Communication Systems	Victor Kremin	
AN2244	Smart Smoke Detector		Andrey Magarita	
AN2239	ADC Selection	EEE GC 364 – Analog Electronics	Dennis Seguine	AN2095,AN2219
AN2236	Converting Projects from CY8C24x23 to CY8C24x23A		Jeff Dahlin	
AN2233a	Capacitive Switch Scan	EEE GC 491 – Special Projects	Dennis Seguine	AN2277
AN2231	Ratemeter with a Precise Pulse Discriminator for Spectrometry		Ilya Mamontov	AN2144
AN2230	PreSoC: A Rational Preprocessor		Dave Van Ess	
AN2229	Multi-Functional Stepping Motor Driver	EEE GC 371 - EMEC	Victor Kremin	AN2161
AN2228	LCD Driving Methods using PSoC(TM)	EEE GC 364 – Analog Electronics	Svyatoslav Paliy	
AN2227	Brushless DC Motor Control	EEE GC 371 - EMEC	Andrey Magarita	AN2170
AN2225	Project Minimization for Version Control		John Lokanis	
AN2224	Lower Noise Continuous Time Signal Processing with PSoC		Dennis Seguine	AN2099,AN2216,A N226
AN2223	The Faux Op-Amp	EEE GC 491 – Special Projects	Dave Van Ess	

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AN2222a	Flex-Pod Soldering Guide		Matt Basinger	
AN2221	Global Resources in PSoC Designer		Mohana Koteeswaren	
AN2219	Selecting PSoC Ground and Reference		Dennis Seguine	AN2017
AN2218	Large Memory Model Programming for PSoC		Khaled Boulos	
AN2216	Estimating PSoC Power Consumption		Onur Ozbek	
AN2214	Sonic Alarm	EEE GC 491 – Special Projects	Chris & Vincent Paiano	
AN2212	Dog Bark Eliminator (Bark -n- Squeal)		Chris & Vincent Paiano	
AN2209	Device Selection Guide for PSoC		Matt Basinger	
AN2208	Universal PID-Thermoregulator	EEE GC 364 – Analog Electronics	Andrew Smetana	AN2120,AN2148
AN2207	Lock-in Milliohmmeter	EEE GC 364 – Analog Electronics	Oleksandr Karpin	AN2028,AN2044,AN2120,AN2148,AN2158
AN2203	Programmable Analog High Current Source. PSoC Style	EEE GC 364 – Analog Electronics EEE GC 424 – Microelectronic Circuits	Dave Van Ess	AN2089
AN2200	Stud Finder		Chris & Vincent Paiano	
AN2199	DAC With Analog Modulator	EEE GC 364 – Analog Electronics EEE GC 383 -Communication Systems	Ganesh Raaja	AN2117
AN2197	Stepper Motor Driver for Smart Gauges	EEE GC 371 - EMEC	Victor Kremin	AN2161
AN2192	Digital Bipolar Power Chopper	EEE GC 491 – Special Projects	Chris & Vincent Paiano	
AN2187	Audible Clock	EEE GC 364 – Analog Electronics	Chris and Vincent Paiano	
AN2186	Acoustic Glass Break Detector	EEE GC 491 – Special Projects	Vadym Grygorenko	
AN2182	Radio Race Control System Encoder	EEE GC 383 -Communication	Chris and Vincent Paiano	

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		Systems		
AN2180	Switch Mode Pump in a Step-Down Converter Using PSoC		Andrey Magarita	
AN2178	Yet Another PSoC-Based Oscilloscope	EEE GC 364 – Analog Electronics	Andrea Giacosi	
AN2177	Ultra-WideBand RADAR Test Platform		Peter A. Stephens	
AN2173	Touch Screen Control and Calibration - Four-Wire, Resistive		Svyatoslav Paliy	
AN2170	3-Phase Brushless Direct Current Motor Driver with Hall-Effect Sensor	EEE GC 371 - EMEC	Andrey Magarita	
AN2168	Understanding Switched Capacitor Filters	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2166	1-Wire User Modules (Introduction)		Wes Randall	
AN2165	Implementing Direct Sequence Spread Spectrum in the PSoC	EEE GC 383 -Communication Systems	Kristopher Young	
AN2163	Temperature Measurement with a 1-Wire Digital Sensor	EEE GC 364 – Analog Electronics	Onur Ozbek	
AN2162	Using the PSoC Invention Board		Andrew Page	
AN2161	Voltage-to-Frequency Converter	EEE GC 364 – Analog Electronics	Victor Kremin	AN2041,AN2044
AN2159	Analog Multiplication with PSoC	EEE GC 491 – Special Projects	Victor Kremin	AN2041,AN2044,A N2161
AN2158	Optical PulsOmeter with PSoC	EEE GC 491 – Special Projects	Victor Kremin	AN2041,AN2042,A N2058,AN2152
AN2157	Three-Phase Sine Wave Generator	EEE GC 364 – Analog Electronics	Uros Platise	AN2141
AN2156	A Switched Capacitor Comparator with Programmable Hysteresis		Dave Van Ess	AN2044,AN2041,A N2108
AN2155	EMI Design Considerations for PSoC		Dennis Seguine	
AN2154	Voltage Monitoring and Sequencing with PSoC	EEE GC 364 – Analog Electronics	Ernie Buterbaugh	
AN2153	Model Rocketry: Air-Starting Rocket Motors	EEE GC 371 - EMEC	Joe Peck	
AN2152	Graphics LCD and PSoC Interface	ES GC 263 Microprocessor	Svyatoslav Paliy	

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		Progr		
AN2148	Measuring Temperature Using a Thermocouple	EEE GC 364 – Analog Electronics	Ganesh Raaja	AN2099,AN2038,A N2101
AN2147	Interfacing to a Graphics LCD from PSoC	EEE GC 364 – Analog Electronics	Pham Minh Tri	
AN2146	Model Rocketry In-Flight Digital Imaging	EEE GC 491 – Special Projects	Joe Peck	
AN2145	Implementing Hardware Quadrature Phase Decoders	EEE GC 383 -Communication Systems	Edwin Olson	
AN2144	Window Discriminator	EEE GC 383 -Communication Systems	vikram_cr@hotmail.com	AN2108
AN2141	Glitch-Free PWM	EEE GC 383 -Communication Systems	uros.platise@ijs.si	
AN2138	3-Wire Interface for LCD Display	EEE GC 364 – Analog Electronics	graaja@eth.net	
AN2137	Subscriber Pulse-Metering Detector	EEE GC 383 -Communication Systems	djoheir@caramail.com	
AN2136	24, 8-Bit Hardware PWMs in a Single PSoC	EEE GC 383 -Communication Systems	GMAudens@SASCO.de	
AN2135	Calling Functions Using a Vector Table in C		CyPro@opctechnology.com	
AN2134	PSoC Programmer for CY8C26XXX Devices		alex.mol@tiscali.it	AN2014, AN2026
AN2133	Autonomous Robot	EEE GC 491 – Special Projects	soccer_fan1@yahoo.com	AN2086
AN2132	Multithreading on the PSoC	ES GC 263 Microprocessor Progr	Justin@holmesweb.net	
AN2131	Migrating Projects to CY8C27xxx in PSoC Designer 4.0		Andrew Best	
AN2130	Dynamic Re-configuration Using Trace	EEE GC 491 – Special Projects	Vincent Aubineau	
AN2129	Interfacing Assembly and C Source Files	ES GC 263 Microprocessor Progr	Jerel Byrd	
AN2128	3-Wire Interface for a 4-Digit LED Display	EEE GC 383 -Communication Systems	graaja@eth.net	
AN2125T	Blackjack Game (Turkish Version) - Preliminary		Cihan Fidan	

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AN2125	Standard - Blackjack Game (English Version) - Preliminary	EEE GC 491 – Special Projects	Cihan Fidan	
AN2124	Morse Decoder for the PSoC	EEE GC 383 -Communication Systems	Melchor A. Varela Morales	
AN2122	Standard - DTMF Detector	EEE GC 383 -Communication Systems	Victor Kremin	
AN2121	Using PSoC Internal Resistors for I2C Communications - Preliminary	EEE GC 383 -Communication Systems	Jason A. Goldstein	
AN2120	RTD Temperature Measurement		M. Ganesh Raaja	
AN2118	Telephone Call Logger - Preliminary		M.Zeki SONMEZ	
AN2117	DAC-11 - Preliminary	EEE GC 364 – Analog Electronics	M. Ganesh Raaja	
AN2116	PC to PSoC Communications with Scrolling LCD Message	EEE GC 383 -Communication Systems	Onur OZBEK	
AN2115	Generate Triangle and Trapezoid Waveforms with a Switched Capacitor -Preliminary		Sigurd Peterson	
AN2114T	Playing Musical Notes Using Buzzer (Turkish Version)		Cihan Fidan	
AN2114	Playing Musical Notes Using Buzzer (English Version)	EEE GC 364 – Analog Electronics	Cihan Fidan	
AN2113P	Math Programs (Portuguese Version)		Harald W. Cintra	
AN2113	Math Programs (English Version)	ES GC 263 Microprocessor Progr.	Harald W. Cintra	
AN2112	Binary To BCD Conversion - Preliminary	ES GC 263 Microprocessor Progr.	Ganesh Raaja	
AN2111	Heterodyne with Quadrature Outputs, PSoC Style	EEE GC 383 -Communication Systems	Dave Van Ess	
AN2110	Use an ADCINC12 and Get a Free PWM8, While Supplies Last!	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2109	The Direct Digital Synthesis Generator	EEE GC 491 – Special Projects	Victor Kremin	
AN2108	Hysteresis Comparator with PSoC	EEE GC 364 – Analog Electronics	Mohana Koteeswaren	
AN2107	A Multi-Chemistry Battery Charger	EEE GC 491 – Special	Victor Kremin	

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		Projects		
AN2106	Simple PC Oscilloscope (Using TX8 and SAR6)	EEE GC 364 – Analog Electronics	Mehmet Z Sonmez	
AN2105	Pyroelectric Infrared Motion Detector, PSoC Style		Dave Van Ess	
AN2104	Dynamic Re-configuration: Getting Started - Preliminary		Frank Berkner	
AN2103	Measuring an Input PWM	EEE GC 383 -Communication Systems	Steve Gerber	
AN2102	Protective Controller for a Refrigerator (English Version)		Azim Gadzhiev	
AN2101	Unsigned Division Routines	ES GC 263 Microprocessor Progr.	Ganesh Raaja	
AN2100	Bootloader: PSoC	ES GC 263 Microprocessor Progr.	Andrew Smetana	
AN2099a	Single-Pole IIR Filters. To Infinity And Beyond! (Japanese Version)	EEE GC 415 – Digital Signal Processing	Dave Van Ess	
AN2099	Single-Pole IIR Filters. To Infinity And Beyond!	EEE GC 415 – Digital Signal Processing	Dave Van Ess	
AN2098	FSK Generator using the PSoC Device	EEE GC 383 -Communication Systems	Andrew Page	
AN2097	Switch Mode Pump	EEE GC 364 – Analog Electronics	Mohana Koteeswaren	
AN2096	Using the ADCINC12, It's as Easy as A D C		Dave Van Ess	
AN2095	Logarithmic Signal Companding.	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2094	PSoC I/O Pin-Port Configuration	ES GC 263 Microprocessor Progr.	Mehmet Z Sonmez	
AN2093	Keypad Scan using ADC (SAR6)	ES GC 263 Microprocessor Progr.	Mehmet Z Sonmez	
AN2092	Infrared Learner (Remote Control)	ES GC 263 Microprocessor Progr.	Mehmet Z Sonmez	
AN2091	RC5 Codec	EEE GC 383 -Communication Systems EEE GC 415 – Digital Signal	Victor Kremin	

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		Processing		
AN2090	VECTOR'SoC: A 1 GHz Vectorial Network Analyzer	EEE GC 383 -Communication Systems	Robert Lacoste	
AN2089	Programmable Bipolar Analog Current Source. PSoC Style	EEE GC 424 – Microelectronic Circuits	Dave Van Ess	
AN2088	Programmable I2C Addressing	EEE GC 383 -Communication Systems EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Arnold Motley	
AN2087	Motor Tachometer Speed Calculation Using Hardware Timer Capture Feature	EEE GC 371 - EMEC	Arnold Motley	
AN2086	Digitally Controlled Sine and Square Wave Generation	EEE GC 491 – Special Projects	Jerry Wasinger	
AN2047	Ultrasound Motion Sensor	EEE GC 491 – Special Projects	Victor Kremin	
AN2046	Real-Time Operation System for PSoC MCUs		Edward Nova	
AN2045j	Designing a Compact and Flexible LIN Controller (Japanese)		Philippe Larcher	
AN2045	Designing a Compact and Flexible LIN Controller		Philippe Larcher	
AN2044	Signal Rectification, using Switched Capacitor Modulators	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2043	Real-Time Clock in PSoC	EEE GC 491 – Special Projects	Corey Wilner	
AN2042	Multifunctional Optical Sensor	EEE GC 364 – Analog Electronics	Victor Kremin	
AN2041	Understanding Switched Capacitor Analog Blocks	EEE GC 491 – Special Projects	Dave Van Ess	
AN2040	Entering and Leaving 24 MHz Operation for CY8C25xxx/26xxx		Cy Apps	
AN2039	Advanced Power Management for CY8C25xxx/26xxx		Cy Apps	
AN2038	Signed Multi-Byte Multiplication	EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Dave Van Ess	

Cypress PSoC Application Note Description & Relevancy to BITS Course Work

Application Note Number	Description	Relevance to Course	Author	Associated Application Notes
AN2037	8 PDIP Produces 100 kHz Pseudo Random White Noise (with a Six-Hour Period)	EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Jerry Wasinger	
AN2036	A Circular FIFO, PSoC Style	EEE GC 491 – Special Projects	Dave Van Ess	
AN2034	Keypad Scan, PSoC Style	EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Dave Van Ess	
AN2033	Data Port Bit Manipulation with the PSoC MCU	EEE GC 391 Digital Electronics & Computer Organization	Darrin Vallis	
AN2032	Unsigned Multiplication	EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Dave Van Ess	
AN2031	Adjustable Sallen and Key Low-Pass Filters	EEE GC 364 – Analog Electronics	Dennis Seguine	
AN2030	Adjustable Sallen and Key High-Pass Filters	EEE GC 364 – Analog Electronics	Dennis Seguine	
AN2028	Ohmmeter	EEE GC 364 – Analog Electronics	Dave Van Ess	
AN2027	Using the PSoC Microcontroller External Crystal Oscillator	EEE GC 491 – Special Projects	Jeff Dahlin	
AN2026b	In-System Serial Programming Protocol CY8C24794 and CY8C29xxx	EEE GC 391 Dig Elec. ES GC 263 Microprocessor Progr.	Jeffrey Stewart	
AN2026a	In-System Serial Programming Protocol CY8C21/22/24/27		Jeffrey Stewart	
AN2026	In-System Serial Programming (ISSP) Protocol		Jeffrey Stewart	
AN2026	In-System Serial Programming (ISSP) Protocol (Japanese)		Jeffrey Stewart	
AN2025	CTCSS Carrier Generation with a PSoC	EEE GC 383 -Communication Systems	Jeff Dahlin	
AN2024	Polyphonic Piano	EEE GC 491 – Special Projects	Dave Van Ess	
AN2021	What is an Invalid Memory Reference	ES GC 263 Microprocessor	Craig Nemecek	

Cypress PSoC Application Note Description & Relevancy to BITS Course Work

Application Note Number	Description	Relevance to Course	Author	Associated Application Notes
		Progr.		
AN2020	Redundant Fan System	EEE GC 491 – Special Projects	Mark Francis	
AN2018	Care and Feeding of ICE Pods		Craig Nemecek	
AN2017	A Thermistor-Based Thermometer, PSoC Style		Dave Van Ess	
AN2016	The Cypress MicroSystems Device YProgrammer		Craig Nemecek	
AN2015	Flash APIs	ES GC 263 Microprocessor Progr.	Warren Snyder/Jon Perrin	
AN2014	Design for In-System Serial Programming (ISSP)		Mark Hastings	
AN2013	UART Receiver Errata Workaround	EEE GC 383 -Communication Systems	Jon Perrin/Steve Roe	
AN2012	Adjusting PSoC Trims for 3.3 Volt Operation with PSoC Designer Versions 2.xx		Jeff Dahlin	
AN2011	PSoC Pup Example Projects	EEE GC 491 – Special Projects	Cy Apps	
AN2010	Getting Started with PSoC (READ THIS FIRST)		Jeff Dahlin	