## M.Tech – E-Classes Based Projects List VLSI & DSP

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-	Unitying software & hardware	I		Unistring Tech Solutions
Project code	Title	IEEE paper year	Langua ge	H/W
AM-01	VLSI design of delay optimized array multiplier for high speed signal processing ASICs	2011	SPICE	
AM-02	Design and VLSI simulation of SRAM memory cells for multi ported SRAMs	2011	SPICE	
AM-03	Submicron level design and simulation of Efficient carry select adder	2012	SPICE	
AM-04	Design and simulation of Low power pulse triggered Flip Flop with 130 nm CMOS technology	2012	SPICE	
AM-05	Hybrid modeling and power analysis of SRAM based register file for 130 nm technology	2012	SPICE	
AM-06	Simulation of Soft error tolerable FPGA cells	2011	SPICE &VHDL	
AM-07	ASIC cell realization of Low power clocked shared paired flip flop	2011	SPICE	
AM-08	Simulation of Improved power gating for low leakage and reduced ground bouncing scheme	2012	SPICE	
AM-09	Simulation and analysis of Pink noise effects in submicron TSMC fabrication processes	2012	SPICE	
AM-10	Novel reversible gate based circuit design and simulation using submicron technologies	2012	SPICE	
AM-11	Bootstrap switch and double sampling based high speed ADC front end unit	2012	SPICE	
AM-12	Low power CMOS design with sleep transistor for submicron VLSI technologies	2012	SPICE	
AM-13	Simulation of low power energy recovery type synchronous circuit design	2012	SPICE	
AM-14	Design and simulation of Modified complementary pass transistor logic (MCPL) based high radix multiplier	2012	SPICE	
AM_15	Low power and high speed register file with CMOS variants at schematic and layout level	2012	SPICE	
AM_16	Delay Characterization of clock driving circuits with reduced swing CMOS logic	2012	SPICE	
AM_17	Design and simulation of Improved memory cell for higher read stability	2011	SPICE	
AM_18	Design issues and performance analysis with power gating schemes in submicron VLSI chips	2011	SPICE	
AM_19	Low power pass transistor based full adder for deep submicron based processes	2011	SPICE	
AM_20	Reduced leakage based low power SRAM cell for main memory of microcontrollers	2011	SPICE	
AM_21	Simulation of Low power dynamic CMOS variant with single phase clocking circuits	2012	SPICE	
AM_22	Simulation of sub threshold flip flops for low power VLSI circuits	2011	SPICE	
AM_23	Soft error tolerant nanometer scale SRAM memory cell for space applications	2011	SPICE	
	Fuzzy Logic Controller for Autonomous Novigetion	2012		
FM-01	Fuzzy Logic Controller for Autonomous Navigation	2012	VHDL	
FM-02	Wireless real time health monitoring system built with FPGA and Zigbee	2012	VHDL	

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	networks		
FM-03	High speed customized serial protocol for IP integration on FPGA based	2011	VHDL
	SOC applications		
FM-04	Development of PID control system based prototype model for DC voltage conversion system	2012	VHDL
FM-05	Hardware in loop emulation of efficient Morphological image processing	2012	VHDL
1101-05	operations on Xilinx FPGA	2012	VIDE
FM-06	Fuzzy enabled PID control for efficient DC motor speed management	2012	VHDL
	realized on FPGA	2042	
FM-07	FPGA implementation of various rate conversion filter architectures	2012	VHDL
FM-08	Wireless system for fall detection using 3-axis Digital Accelerometer	2012	VHDL
FM-09	Fault injection test bed for clock violation based cipher attacks on FPGA Hardware	2012	VHDL
FM-10	Design and Realization of Serial Front Panel Data Port (SFPDP) Protocol	2012	VHDL
FM-11	Multi dimensional parity based hamming codes for correcting the SRAM memory faults under high EMI conditions	2012	Verilog
FM-12	Platform for FPGA based accelerated computing through Ethernet	2012	Verilog
FM-13	power Vs Accuracy analysis for FIR filter implementation on FPGAs	2012	VHDL
FM-14	Research on Goertzel Algorithm of LFMCW Laser Fuze Ranging	2012	VHDL
FM-15	Design the adaptive noise canceller based on an improved LMS Algorithm	2012	VHDL
1101-13	and realize it by DSP	2012	VIDE
FM-16	A Design of Phase Nonlinear Chirp Waveform	2012	VHDL
	using FPGA for Pulse Compression Radar		
FM-17	Pipelined FPGA Design of the Goertzel Algorithm	2012	VHDL
	for Exon Prediction		
FM-18	area and speed wise improved Vedic multiplier for FPGA based arithmetic circuits	2012	VHDL
FM-19	Complete prototyping of BPSK communication system on FPGAs	2012	VHDL
FM-20	Configurable FFT processor with fixed point arithmetic for reconfigurable	2012	VHDL
1101 20	DSP applications	2012	
FM-21	Data login system for Autonomous Underwater Vehicle (AUV) synthetic	2012	VHDL
	aperture sonar		
FM-22	Delta Sigma modulator for modern wireless signal generation	2012	VHDL
FM-23	Efficient matched filters for down conversion systems in FPGA based software defined radios	2012	VHDL
FM-24	fall detection by 3D accelerometer	2012	VHDL
FM-25	Fast DNA sequence aligner	2012	VHDL
FM-26	FPGA based complex test pattern generation for high speed fault diagnosis	2011	VHDL
	in memory chips		
FM-27	Fault injection test bed for clock violation based cipher attacks on FPGA	2012	VHDL
	Hardware		
FM-28	Fixed point modelsim and Hardware testing of Discrete Wavelet transform	2012	VHDL
	using VHDL		
FM-29	Hard in loop testing and validation of Adaptive sigma delta modulator on FPGA	2012	VHDL
FM-30	hardware efficient eigen function generation for FPGA architectures	2012	VHDL

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-	Uninying somware a narawane	I		Unistring Tech Solutions
FM-31	High speed FPGA communication realized through fiber optic link	2012	VHDL	
FM-32	Implementation of FPGA based high speed gaming environment frame	2012	VHDL	
	work			
FM-33	implementation of home automation system with low cost FPGA	2012	VHDL	
FM-34	Low phase noise based carrier generation with sigma delta and CORDIC	2012	VHDL	
FM-35				
FM-36	Platform for FPGA based accelerated computing through Ethernet	2012	VHDL	
FM-37	power Vs Accuracy analysis for FIR filter implementation on FPGAs	2012	VHDL	
FM-38	VHDL Implementation of UART with Status Register	2012	VHDL	
FM-39	Real time kernel based communication between FPGAs	2012	VHDL	
FM-40	Reconfigurable asynchronous to synchronous communication adapter	2012	VHDL	
	implemented on Xilinx FPGA			
FM-41	FPGA modeling of Neuron for future artificial intelligence applications	2012	VHDL	
FM-42	FPGA implementation of high speed IEEE 754 compliant floating point multiplication	2012	VHDL	
FM-43	Fast pipelined AES algorithm implemented on Xilinx FPGAs	2011	VHDL	
FM_44	Reconfiguration serial communication core for embedded interfacing on	2012	VHDL	
	FPGAs			
FM_45	IO controller built on Xilinx FPGA with Microblaze softprocessor based	2012	VHDL	
_	approach			
FM-51	High speed and dynamic switching type signal generation on FPGA for	2011	VHDL	
	emulating the test signals for navigation receivers			
FM-52	Digital multiple beam forming with sub array based phased RADARs	2011	VHDL	
FM-53	Efficient test pattern generation based on weighted pattern generation	2012	VHDL	
FM-54	High speed all digital phase locked loop (DPLL) using pipelined carrier	2011	VHDL	
	synthesis techniques.			
FM-55	Implementation of scaled down model of Heterogeneous spectrometers	2011	VHDL	
	for radio astronomy applications on Xilinx FPGA			
FM-56	Design and implementation of low power Distributed arithmetic based	2011	VHDL	
	discrete wavelet transform (DWT) on FPGA			
FM-57	Reduced switching activity based low power test pattern generator	2012	VHDL	
514 50	implemented on FPGA	2012	2//101	
FM-58	Fine Grain Fault Tolerance-a Key to High Reliability for	2012	VHDL	
FM-59	FPGAs in Space IMPLEMENTATION OF BISTCONTROLLER	2012	VHDL	
FIVI-59	FOR FAULT DETECTION IN CLB OF FPGA	2012	VIDL	
FM-60	Area efficient throughput improved high speed FSK demodulator for	2012	VHDL	
	telemetry applications	2012	VIIDE	
FM-61	Area efficient image compression with modified wavelet transform	2012	VHDL	
	technique with VHDL			
FM-62	Hardware in loop based verification for transition detector in images using	2012	VHDL	
	Sobel filter			
FM-63	FPGA based Area efficient median filtering for removal of salt-pepper and	2012	VHDL	
	impulse noises			
FM-64	FPGA implemented Edge detection algorithm for medical angiography	2012	VHDL	
FM-65	FPGA realization of Gaussian pulse shaped QPSK modulator	2011	VHDL	

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	Unnying serware & nareware	i.		Unistring Tech Solutions
FM-66	Matlab HDL integration for efficient communication system development verified with BPSK	2011	VHDL	
FM-67	Implementation of high throughput QPSK transceiver on FPGAs	2011	VHDL	
FM-76	Efficient realization of JPEG encoder for still image compression on FPGA	2011	verilog	
FM-77	FPGA implementation of AMBA - AHB compatible memory controller	2011	verilog	
FM-78	Hardware implementation of digital amplitude, phase and frequency demodulators for SDRs	2012	verilog	
FM-79	High radix and compression based area efficient multiplier with Verilog HDL on FPGA	2012	verilog	
FM-80	Low power and low area Discrete cosine transform implemented on FPGA	2012	verilog	
FM-81	Parallel architecture for LFSR for high speed and CRC and BCH encoding applications	2012	verilog	
FM-82	Realization of High level data link controller using Verilog HDL on FPGA	2011	verilog	
FM-83	Verilog Implementation of serial communication between two FPAGs	2012	verilog	
A1-1	VHDL coding and FPGA implementation of high speed PI like Fuzzy control system for industrial automation applications	2010	VHDL	
A1-2	A low cost FPGA based USB device core	2008	VHDL	
A1-5	Semi custom implementation of modified SHA algorithm	2012	VHDL	
A1-6	Implementation of low power and high speed encryption Crypto-Hardware using Novel Modular Arithmetic Components	2010	VHDL	
A1-8	FPGA synthesized shift converter with FIFO for USB to RS232 interface	2012	VHDL	
A1-11	VHDL implementation of blowfish cryptosystem for streaming multimedia applications	2008	VHDL	
A1-13	FPGA Implementation of FIFO based multi-channel UART controller for complex control systems	2007	VHDL	
A1-14	FPGA implementation of Scalable encryption algorithm for delay sensitive and energy aware wireless sensor networks	2009	VHDL	
A1-16	FPGA based DPWM architectures for high speed, high resolution and low power closed loop control systems	2012	VHDL	
A1-17	Control system for Laser guidance based deflectable nose bullet for future military applications	2010	VHDL	
A1-19	Real time Electrocardiogram (ECG) signal processing on FPGA for emerging personal healthcare applications	2010	VHDL	
A1-23	VHDL implementation of FPGA synthesizable scaled ARM 7, v-4 soft processor core for embedded SOC applications	-	VHDL	
A1-25	Reconfigurable real time signal capturing of baseband and IF signals on FPGA for communication applications	2008, 2005	VHDL	
A1-26	An Hardware reconfigurable debug data compressor for FPGA-Based on chip Debugging applications	2007	VHDL	
A1-29	Noise immune and area optimized serial interface for FPGA based industrial interfaces	2012		
A1-30	Implementation of FPGA based low cost logic signal analyzer (LSA)	2008	VHDL	
A1-31	FPGA Implementation of low power multi serial to Ethernet gateway for Unmanned Aerial Vehicle (UAV) data acquisition systems	2010	VHDL	
A1-33	FPGA implementation of efficient DTMF detection using Goertzel	2010	VHDL	1

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	algorithm with highly area entimized recourse charing approach	! 	
42.25	algorithm with highly area optimized resource sharing approach	2007	
A2-34	Design of high speed and low power digital matched filter for CDMA	2007	VHDL
	applications	2000	24151
A2-35	FPGA implementation of programmable Digital frequency synthesizer for	2008	VHDL
	digital communication applications		
A2-36	FPGA implementation of BFSK based Telemetry link transmitter and	2005	VHDL
	Receiver		
A2-37	FPGA based Deep Packet Inspection Engine for NIDS	2012	VHDL
A2-38	FPGA'S GPS signal source design	2012	
A2-39	FPGA implementation of universal modulator using CORDIC algorithm for	2009	VHDL
	communication applications		
A2-40	FPGA implementation of Extended Tiny Encryption Algorithm(XTEA) for	2006	VHDL
	Wireless sensor networks		
A2-41	Implementation of differentially encoded QPSK communication system	2008,	VHDL
	with non-coherent detection scheme for satellite radio applications	WCE200	
		9	
A2-42	Low-Power and high speed Robust Frequency-domain Echo Cancellation	2010	VHDL
	on FPGA hardware		
A2-45	VHDL simulation and FPGA synthesis of DS-CDMA for reconfigurable	2008	VHDL
	communication links		
A2_49	VHDL modeling of noisy and MIMO fading channels for FPGA based	2010	VHDL
	wireless communication system designs		
A2-50	Soft decoding of the (23, 12, 7) Golay-code upto five errors	2012	
A2-52	VHDL implementation of secure arithmetic coding for secure data	2012	VHDL
	communication applications		
A2-57	Implementation of Alamouti Space Time Block Coded (STBC) MIMO	2012	VHDL
	encoder and decoder on FPGA		
A2-58	A pipelined implementation of OFDM transmitter and receiver on	2008	VHDL
	reconfigurable platforms		
A2-60	High speed spectrum sensing technique to monitor specific frequency	2010	VHDL
	signals on FPGA platform		
A3-62	FPGA implementation of FFT based Digital Instantaneous Frequency	2012	VHDL
	Measurement (DIFM) technique		
A3_63	FPGA optimized low power and high speed FIR filter structures for	2012	VHDL
	software defined radio applications		
A3-64	High density complex RADAR signal emulator for FPGA based RADAR signal	2010	VHDL
	processing test applications		
A3-68	A PIC compatible RISC CPU core implementation for FPGA based	2008	VHDL
	configurable SOC platform for embedded applications		
A3-69	FPGA implementation of scalable multi-gigabit pattern matching for	2008	VHDL
	network intrusion detection system (NIDS)		
A3-72	FPGA Implementation of high area efficient and low power Goertzel	2008	VHDL
	algorithm for spectrum analysis		
A3-74	Spread spectrum based Secured and robust data link system for	2009	VHDL
	Unmanned Aerial Vehicle (UAV) guidance and control		
A3-76	FPGA implementation of QAM transmitter and receiver architectures for	2010	VHDL

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	Wimax applications	<u>_</u> !		
A3-78	Design and realization of high speed software defined radio architecture	2009	VHDL	
//3 //0	on FPGA platform	2005	VIIDE	
A3-79	FPGA implementation of fast wideband direction estimation using	2009	VHDL	
	Coherent Signal Subspace Method technique			
A3_80	Simulation and synthesis of digital pre-distortion based amplifier	2010	VHDL	
_	linearization with advanced dynamic Look up table for high bandwidth			
	communication links			
A4-81	FPGA implementation of programmable Digital frequency synthesizer for	2008	Verilog	
	digital communication applications			
A4-82	FPGA implementation of low power multi channel generalized PID	2010	VHDL	
	controller frame work for industrial automation applications	2009		
A4-83	FPGA implementation of real time audio signal source localization	2012	VHDL	
	technique for intelligent robotic applications			
A4-84	Verilog HDL implementation of Low power audio sub-word sorter unit for	2009	Verilog	
	security in audio streaming applications			
A4-85	High speed fault injection tool (FITO) implemented with VHDL on FPGA for	2008	VHDL	
	testing Fault tolerant designs			
A4_86	A lower power, low complexity and memory free implementation of Novel	2010	VHDL	
	Recursive DFT and IDFT algorithms			
A4-87	Hardware implementation of linear and morphological image processing	2010	VHDL	
	algorithms on FPGAs			
A4-89	Fast self switching type frequency Agile RADAR processing unit	2009	VHDL	
	implemented on Xilinx FPGA			
A4-90	FPGA realization of all digital PSK MODEM based on software defined radio	2009	VHDL	
	architecture			
A4-91	Digital programmable all type modulation and spread spectrum signal	2009	VHDL	
	generator using latest FPGA techniques			
A4-92	Programmable wide band frequency modulation receiver built with full	2009	VHDL	
	digital techniques on FPGA			
A4-93	Highly optimized high speed Multirate FIR filters for reconfigurable digital	2010	VHDL	
	communication systems			
A4-94	Parameter controller reconfigurable base band modulator SDR	2010	VHDL	
	architecture built in FPGA			
A4-95	Ultra high speed wideband rate conversion architectures based on	2010	VHDL	
	Cascaded Integrator comb (CIC) filters			
A4-96	FPGA implementation of Quadrature Mirror Filter (QMF) for equalizer	2010	VHDL	
	application of wireless communication channel			
A4-98	Design and Implement of variable length FFT Processor for OFDMA System	2010	VHDL	
	Using FPGA			
	A Fast Hardware Approach for Approximate efficient logarithm and	VHDL		
	Antilogarithm Computation			

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#### Matlab (DSP) Projects

Project code	Title	Ref IEEE paper year	Language
B1-99	Implementation of modulation type identifier based on higher order	2009	MATLAB /OCTAVE
<u> </u>	statistical parameters for unknown signal interception applications	• • • • •	
B1-104	Simulation of OFDM modulator and Demodulator for Wimax	2008	MATLAB /OCTAVE
	applications		
B1-114	Algorithm for blind detection of Frequency hopping signals based on second order cyclostationary	2008	MATLAB /OCTAVE
B1-115		2008	MATLAB
DI-113	Modeling and Simulation of real time audio signal source localization technique for intelligent robotic applications	2008	/OCTAVE
B1-116		2008	MATLAB
B1-110	Simulation of frequency hopping spread spectrum (FHSS)	2008	/OCTAVE
D1 101	communication system for fading channels	2012	MATLAB/
B1-121	Spectral sensing algorithm for complex modulated signals in	2012	OCTAVE
D1 100	cognitive communication applications	2012	
B1-122	Simulation of correlation properties and transceiver for Optical	2012	MATLAB/ OCTAVE
	CDMA		
B2-128	Simulation of Video stabilization technique for Video quality	2000	MATLAB /OCTAVE
	improvement for UAV surveillance applications		
B2-131	Implementation of Moving object detection in video signals for	2009	MATLAB
	automatic traffic control and signaling applications		/OCTAVE
B2-132	FH signal interception based on the time-frequency spectrogram by	2009	MATLAB
	image enhancement techniques		/OCTAVE
B2-133	Morphological signal processing based cancer and tumor cell	2012	
	identification		
B2_134	Wavelet transform based image fusion for brain diagnosis	2012	MATLAB/ OCTAVE
B3-152	Simulation of Spectral efficient low distortion CPM communication	2010	MATLAB
	system with modified Gaussian pulse shaping		/OCTAVE
B3-153	A Novel long Pseudo(PN) code Acquisition Algorithm for fast	2010	MATLAB
20 100	acquisition based direct sequence spread spectrum (DSSS) systems	2010	/OCTAVE
B3-154	Improved method for Deinterleaving Radar Pulse Trains with Stagger	2010	MATLAB/
	PRI in Dense Pulse environment	2010	OCTAVE
B3-155	Simulation of MIMO and OFDM based communication system for	2010	MATLAB/
<b>D</b> 5 100	Digital Video broadcasting (DVB) applications	2010	OCTAVE
B3-156	A Novel pulse compression technique for higher range and better	2010	MATLAB/
DJ 150	range resolution for RADAR systems	2010	OCTAVE
B3-157	Low cost EM signal Direction estimation with two element time	2010	MATLAB/
151-151	modulated array system for military/police search operations	2010	OCTAVE
B3-158	Hybrid Technology using STBC, OFDM with spread spectrum (SS)	2009	MATLAB/
03-138		2009	OCTAVE
D2 150	for Next Generation Broad band Mobile Radio Communications	2010	MATLAB/
B3-159	Three element beam forming algorithm with reduced interference	2010	OCTAVE
D2 160	effect in signal direction estimation	2010	
B3-160	Probability Density analysis of the Phase Error of a Digital	2010	MATLAB/ OCTAVE

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	Interferometer with Overlapped FFT Processing		
B3-161	Design and Simulation of the Digital Carrier Tracking Technique for High Dynamic Spread Spectrum Receiver for ground to missile telemetry links	2009	MATLAB/ OCTAVE
B3-163	Blind detection of frequency hopping with compressing sensing technique	2012	MATLAB/ OCTAVE
B3-164	Cramer Rao bound and Maximum likelihood analysis of Passive locating systems	2012	MATLAB/ OCTAVE
B3-165	Cross spectral density analysis for various codes suitable for spread spectrum under AWGN conditions	2012	MATLAB/ OCTAVE
B3-166	Efficient spectrum sensing with correlators and comb filters	2012	MATLAB/ OCTAVE
B3-167	High precision cross correlation technique for mobile signals	2011	MATLAB/ OCTAVE
B3-168	Improved multi target detection based RADAR for traffic control using FMCW	2012	MATLAB/ OCTAVE
B3-169	Low cost and real time signal generator with PC sound card and MATLAB graphics	2012	MATLAB/ OCTAVE
B3-170	Power efficient spectrum sensing with two stage processing	2012	MATLAB/ OCTAVE
B3-171	Simulation of Passive RADAR based on Broad cast transmitters	2012	MATLAB/ OCTAVE
B3-172	Spread spectrum code design for MIMO Radar for multi target detection	2012	MATLAB/ OCTAVE
B3-173	subsample delay estimation based on hilbert transform	2011	MATLAB/ OCTAVE
B3-174	time frequency analysis of unknown LFM signals	2012	MATLAB/ OCTAVE
B3-175	Triple correlation function (TCF) based detection of Gold codes	2011	MATLAB/ OCTAVE

\*\*Note

- 1. The IEEE year given is the year of current version that is published, it is to be noted that the publication date will be few months older than this date.
- 2. The IEEE reference indicates that the work carried out has some relevance to latest technologies. However in most of the cases the implementation would have several new issues in them, instead of implementing the paper as it is.
- 3. See the abstract, block diagram and ppt for each project to understand the exact project scope.
- **4.** As the projects are related to latest technologies minimum amount of domain, concepts and code learning will be associated for every project. We offer this information in the form of Video classes, E-classes and direction interaction with company engineers.
- **5.** Students need to register the project as soon as the project accepted in the college. The code and document development for new projects will only be started after registration.

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