

# ANURAG PALREDDY

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**COMPUTER ENGINEER (Exp: 6 Years, 1 Months)**

<b>Employer</b>	<b>CDAC, Hyderabad (4 Mon)- Project Engineer</b>	(Aug/2022-Dec/2022)
<b>PROJECT</b>	AGRICULTURAL DATA LOGGER	Client: Astra Microwave, Hyd
<b>Description:</b>	Used for Measuring Temperature, Relative Humidity, etc and transmitting them and GPS coordinates back.	
<b>Role:</b>	Resolving Critical-elusive Bugs in Software GPS Subsystem – {System Reset-UART Buffer Overflow, GPS State Reset-Multithreading Bug, ...} from C-Code.	
<b>Concepts:</b>	STM32 UART Peripheral Internal Architecture, Multi-Threading	
<b>Employer</b>	<b>THYBOLT (9 Mon)- Hardware Engineer I</b>	(Apr/2021-Dec/2021)
<b>PROJECT</b>	HUMIDITY TEMPERATURE PROBE	Client: Astra Microwave, Hyd
<b>Description:</b>	Measures Relative Humidity, Temperature of Atmosphere	
<b>Role:</b>	Calibration Algorithms for Pt100 RTD-MAX31865-ADC Temperature, P14W-AD7745 CDC Humidity Systems. Soldering and Calibration at Calibration Facility. Integrating HYT271 Humidity-Temperature Sensor (I <sup>2</sup> C)	
<b>Concepts:</b>	Calibration, Errors	
<b>PROJECT</b>	RADIOSONDE	Client: Govt of India, Company.
<b>Description:</b>	Measures Relative Humidity, Temperature. Pressure of Atmosphere at measured attitude via balloon	
<b>Role:</b>	Circuit Design Modifications, Preparation of Specification Sheet for Radiosonde	
<b>Employer</b>	<b>ZENTRONICS SYSTEMS (2 Yrs., 5 Mon)-Computer Engineer</b>	(Jun/2017-Oct/2019)
<b>PROJECT</b>	THYRISTRO FIRING DEVICE	Client: BHEL, Hyd
<b>Description:</b>	Used to Fire Motors	
<b>Role:</b>	Thyristor Working and Schematic Capture	
<b>PROJECT</b>	STROBOSCOPE	Client: BHEL, Hyd
<b>Description:</b>	Measures RPM of Transformers with flashing of light @ 60 Hz	
<b>Role:</b>	Reversing Engg Schematic Block Diagram from PCB Circuitry, Components Procurement	
<b>Concepts:</b>	NE555 Timer, Digital ICs	
<b>PROJECT</b>	IMPACT RECORDER	
<b>Description:</b>	Measures Mechanical Impact to Electrical Transformers during Transport - Useful for Insurance claims.	
<b>Role:</b>	<u>HARDWARE</u> : Circuit Design with PIC32MX Curiosity Development Board. <u>SOFTWARE</u> : Application designed to record (μSD) acceleration @ G-Sensor. Switch to start, stop recording.	
<b>Concepts:</b>	MPLAB Harmony, FreeRTOS- Task Notification, Message Queues.	
<b>Employer</b>	<b>APOLLO COMPUTING LABS (2 Yrs., 7 Mon) - Hardware Engineer</b>	(Apr/2014-Oct/2016)
<b>PROJECT</b>	MIL-1553B-HARNESS TESTER	Client: ARDE Pune
<b>Description:</b>	Check faults - Stub Shield Short, Stub Continuity, Bus Termination, Bus Shield Short, Phase Reversal.	
<b>Role:</b>	<u>Hardware</u> : Circuit Design. <u>Software</u> : C-code for Phase Reversal, Impedance Analyzer (I <sup>2</sup> C) for Bus Termination, Internal ADC for Resistance (Stub Shield Short, Continuity Tests), Internal Timers, IO Pins, switches.	
<b>Concepts:</b>	{Resistance, Impedance} Measurement, 1553B-Bus Electronic Characteristics (Hardware Layer)	
<b>PROJECT</b>	PINAKA MISSILES TEST JIG/SASU.ELM - FUSE SETTER (5 months)	Client: ARDE Pune
<b>Description:</b>	To present electronic signals for Pinaka Missile similar to real time. Input to system via Keypad, Switches. Reaction of rocket monitored via UART. Status of reaction displayed on LCD.	
<b>Role:</b>	<u>Hardware</u> : Board Testing. <u>Software</u> : C-Code @ dsPIC30F5011 to control modules and test the Pinaka Missile.	
<b>Concepts:</b>	Timers, Interrupts, Microchip MLA Driver Library.	

## EDUCATION:

<b>MTech</b>	<b>BITS, India</b>	(2011-2013)
	M.E. Embedded Systems with CGPA: 7.78/10.0	
	<u>Subjects</u> : Embedded Systems, Real Time Operating Systems, Software for Embedded Systems.	
<b>BTech</b>	<b>CVSR College of Engineering, Hyderabad, India</b>	(2007-2011)
	B.Tech. Electronics and Communication Engineering; (JNTU) with 63.53%	
	<u>Subjects</u> : C, Electronic Devices and Circuits, Switching Theory and Logic Design, Computer Organization.	
<b>College</b>	<b>VIJAY RATNA JUNIOR COLLEGE, Hyderabad, India</b>	(2005-2007)
	Board of Intermediate Education (BIE), A.P, with 88.0 %	
<b>School</b>	<b>THE HYDERABAD PUBLIC SCHOOL, RAMANTHAPUR, Hyderabad, India</b>	(1997-2005)
	Central Board of Secondary Education (CBSE) with 88.0 %	
<b>Additional Information</b>	<u>Address</u> : 3-16-49 Nehru Nagar, Ramanthapur, Hyderabad, Telangana, India Fluent in English and Telugu, enjoy reading novels and playing Table Tennis.	