

## GADDAM SANTHOSH

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### Career Objective:

To pursue a challenging career in an organization, that encourages creativity and provides exposure to new technology to achieve professional and personal growth along with the organization.

### Professional Summary:

- Having 3+ years of experience on Embedded Systems.
- Extensive experience in C and Embedded C programming.
- RS-232, SPI and I2C protocols Communications for Automation applications.
- Wide experience in all stages of development of large application projects using C and Embedded Software technologies.
- Thorough knowledge of design of small user and system interfaces using LCD's, Keypad, GSM, etc.
- Experience on Embedded Hardware architecture, Schematic design, board debugging and coding
- Hands on experience on PCB /Unit level Testing, Experience in Test Jigs Development.
- Hardware design, Testing, Prototyping, Integration, debugging and failure analysis.
- Ability to perform Module level circuit Testing and Measuring activities using various laboratory Equipment like DSO, DMMs etc.
- Preparing Technical documents, Test Procedures, bill of material (BOM), Component selection etc.
- Circuit design and schematic capture using simulation tools like **ORCAD, LTSpice, PROTEUS**.
- Knowledge of communication and working experience with Protocols MIL1553B, RS232, RS422, I2C.
- Have knowledge on Linux environment.

### Work Experience:

- Worked in Apollo Microsystems as **Embedded Engineer** with 2+ years of Experience. It is engaged in the supply of Electronic systems including design and development which are used in missile programs, Missile Simulators, Missile control systems, Relay ruggedized systems, etc..

Company Name	Designation	From	To	Nature of work
Apollo Micro Systems Ltd	Embedded Engineer	DEC 2017	MARCH 2020	Hardware design, Testing and Software debugging
Ineda Systems	Junior Hardware Engineer	NOV 2016	APR 2017	Hardware design and Testing
Wine Yard Technologies	Trainee(Application Engineer)	6 Months+12 Months (2014-2016)		Testing, troubleshooting (Electronics) and Teaching Proto-type Applications to Students

## Academic Details:

- ✓ Completed Bachelor of Technology in Electronics and communication engineering with an aggregate of 76.8% from Vidya Bharthi institute of technology and sciences (Affiliated to JNTU) in 2014.
- ✓ Completed Intermediate with an aggregate of 74.5% from A.B.V junior college in 2010.
- ✓ Completed S.S.C with an aggregate of 74.3% from A.M.G.V High school in 2008.

## Technical Skills:

- **Programming Languages** : C, Embedded C.
- **Compilers / Editors** : Keil IDE, SDK
- **Microcontrollers/Processors:** LPC2148 (ARM7), 8051/52, Atmega328, Spartran6(FPGA), PIC16FXXXXX.
- **Communication Protocols** : MIL1553B, SPI, I2C, UART
- **Operating Systems** : Ubuntu Linux & Windows
- **Tools Knowledge** : **Xilinx\_ISE**, Proteus, Orcad, QT-Creator, Teraterm, Keil

## Projects Executed:

**Vendor:** Apollo Micro Systems Ltd.

#1: <b>Project Name:</b>		<b>MSU (Missile Simulator Unit)</b>	
Role		Development and Designing, Software Programming and troubleshooting of Electronics.	
End User		QRSAM, AKASH-NG, ASTRA, DSTARLABS-DRDL, BEL-Bangalore.	
Environment (with skill versions)	Tool	<b>Xilinx_ISE</b> , QT-Creator, Teraterm	
	Hardware/Software	FPGA(Spartan-6), D-I/O, DAC, ADC, UART, MIL-1553B, GUI	

## Project Description:

- ✓ The MSU is used as the interface between the onboard computer and other subsystems for carrying out various functions such as switching subsystems.
- ✓ The design is based on Spartan-6(FPGA) with MIL1553B.
- ✓ The unit has analog outputs analog inputs, digital outputs and digital inputs.
- ✓ it includes RS-422 interface and a MIL1553B interface for communication with the on-board computer (OBC).
- ✓ This unit can be monitored using RS-422 transceiver(such as battery health status & output on/off status).

**Vendor:** Wine Yard Technologies

<b>#2:Project Name: Automation of dry-wet dust collection to support Swachh Bharat Abhiyaan</b>		
Role	Development and RF Operating Hardware and Schematic designing.	
Duration	April 2016 – July 2016	
End User	Internal Proto-type Application	
Environment (with skill versions)	Tool	Keil uvision, Embedded C, microcontrollers.
	Hardware/Software	GPIO, ADC, UART, RF

### Project Description:

The aim of the mission is to cover all the rural and urban areas of the country to present this country as an ideal country before the world. This project is designed for the effective dry and wet dirt collection using Embedded System. The main of this application collecting of dry and wet waste separately into the dumping vehicles.

### Personal Information:

Date of Birth : 10-05-1993

Gender : Male

Marital Status : Single

Languages Known : English, Hindi and Telugu

Address : 3-6-15/c, Ganesh Street, Jangaon (Dist.) -506167, Telangana.

I hereby declare that the above furnished information is true to the best of my knowledge and belief.

**G SANTHOSH.**