

PRAPHULLA H.B

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Career objective:

Seeking a long term professional career in an organization offering a challenging work environment and to be able to learn continuously and contribute significantly to the organization by applying my skills to the fullest, and having an 7 years of experience.

Experience Summary:

- Total 7 years of Experience in **Embedded, Aerospace and Avionics** domain.
- Currently working in **Aeronautical development Agency** from We Digi Global consulting pvt ltd.(April 2022- April 2023)
- 2 years 6 months Experience in **Embedded Hardware Testing in Telemetry division**(Satellite cards Testing) ATL-ISRO
- 2 years of Experience in **Embedded Testing** in Duxes labs.
- 10 months of Experience in **GPS data processing** in NAL.
- 9 months of Experience in **Quality control** in Embrace innovations Pvt ltd.
- Good Knowledge on **DO-178B** Guidelines.
- Good Knowledge on **IBM Rational Test Real Time (RTRT)** Tool.
- Good Knowledge on **Milbus 1553** standard protocol.
- Good Knowledge on **C programming** Language.
- Good Knowledge on **µC 8051,PIC18F4550** Micro Controller..
- Knowledge on **RS-232, UART,SPI, I2C** Communication Protocols
- Good knowledge on **Linux –Ubuntu** Operating system

Professional Experience:

- Currently working in **Aeronautical development Agency** from We Digi Global consulting pvt ltd.(April 2022- April 2023)
- Worked as **Test Engineer** at ATL-ISRO, Bangalore.(August2017- Feb2020)
- Worked as **Project scientist** at NAL-CMMACS, Bangalore. .(March2015- Jan2016)
- Worked as **Embedded Engineer** at Duxes Labs, Bangalore. (Apr2013- Mar2015)
- Worked as **QC Analyst** at Embrace innovations pvt ltd, Bangalore(Sep2012- Apr2013)

Academic qualification:

- Master of Science in Electronics with 75.6%
- Bachelor of Science in Electronics with 68.0%

Professional Projects:

Project: LCA TEJAS (LSP4&LSP7)

Organization: Aeronautical Development Agency (Wedigi global consulting pvt ltd)

Roles and responsibilities:

- Involved in Functional Testing of Avionics LRUS.(Rafael SDR,IFF,CIT,DACS,V/UHF Radios)
- Verification and validation testing using RTRT Tool
- Integration testing of aircraft modules using OAC simulator
- post Flight data analysis using python script
- Testing and validation of On-board Data Acquisition Hardware.
- Plotting acquired data and Analyzing.
- Preparing test specs documents and test reports
- Onboard flight testing and snag debugging
- Good knowledge on DO-178B guidelines
- Good knowledge on 1553B Mil bus

Project: GSAT-29

Organization: ATL-ISRO

Scope of project: GSAT-29 satellite is a communication satellite. it provides high speed band width to village resource

Project	GSAT-29
Client	ISRO
Duration	1 YEAR
Tools	1553 Software,8051Microcontroller,RMU Test Jig ,Simulators, Test console
Language	C, Embedded C
Role	Test engineer(Telemetry Division)
Description	GSAT-29 satellite is intended to add data transmission capacity to the communication infrastructure .as a payload high resolution camara and Ku-band frequencies used. Telemetry subsystem receives the data from the satellite and multiplexing data through RMU units & HS1840 analog multiplexer ICs . Telemetry testing done using hardware and simulation software. RTAX2000S FPGA used for command, control ,signal processing and interfacing applications and high resolution sensors used in satellite systems.

Project: GSAT-12R

Organization: ATL -ISRO

Scope of project: GSAT-12R satellite is a communication satellite. it will provide services like Tele-Education, Tele-Medicine, Disaster management support and satellite internet access.

Project	GSAT-12R
Client	ISRO
Duration	1 YEAR
Tools	1553 Software,8051Microcontroller,RMU Test Jig, Simulator,Test console
Role	Test engineer(Telemetry Division)
Description	GSAT-12R satellites carries 12 extended C-Band Transponders . Telemetry subsystem receives the data from the satellite and multiplexing data through RMU units & HS1840 Analog multiplexer ICs . Telemetry testing done using hardware and simulation software. RTAX2000S FPGA used for command, control ,signal processing and interfacing applications and high resolution sensors used in satellite systems.
Language	C, Embedded C

Roles and responsibilities:

- Satellite Telemetry cards Testing
- Testing documents preparation
- Verification and Validation
- Cards Placement check
- Test console evolution

Project: Robo-L

Organization: Duxes labs pvt ltd

Language: C, Embedded C

Scope of the project:

Many Industrial automation applications like automatic control of machines, motors and lights

Project	Robo-L
Client	In house product
duration	1 Year
Tools	PIC18F4550 microcontroller, Robo-L Software, Pickit 3, RTRT 7.5
Language	Embedded C
Role	Embedded Engineer
Description	This is an Industrial Automation project Using Robo-L

	<p>software User can create own Application Even though he does not know the programming knowledge. Two General purpose Protocols are used. one for communication with target board and PC and second for communication of PIC controller to EEPROM Chip for sending the data.</p> <p>Switches & sensors are used as inputs. LEDs, DC motors and buzzers are used as outputs</p>
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Project: Gloves Testing Machine Firmware project using PIC controller

Organization: Duxes labs Pvt Ltd

Language: Embedded C

Scope of the project: it is a industrial automation project ,utilized in medical field as surgical gloves are used by doctors, it reduces the manpower Requirement

Project	Project on Gloves Testing Machine Firmware project
duration	1 year
Tools	PIC 18F4550MC, MPLABx, PICKIT3, RTRT tool
Language	Embedded c
Role	Embedded Engineer
Description:	<p>Project on Gloves Testing Machine it is a industrial suture project based on the PIC Controller and GUI software, pressure sensors are used for sense the air pressure in the gloves, actuators are used for each glove for control the air, main objective of this project is to test the leakage in gloves .64 gloves per minute tested using rotor machine</p> <p>communication between the PC and microcontroller is done by UART. Under different pressure condition and speed gloves are tested, 16 modules are allowed in one machine, it is a automated industrial application</p>

Roles and Responsibilities:

- Embedded unit Testing
- Test document Preparation.
- Verification and QC

Technical skills:

C, Embedded C, RTRT, Linux, Hardware Testing

Accomplishments:

- Secured 'A' grade in 'O' level programming course conducted by KEONICS. Attended National Aptitude Test conducted by NIIT.
- Secured 'A' grade in "Mahiti-Sindhu Project" conducted by NIIT.

Areas of Strength:

- Good listener and quick learner.
- Can work efficiently in a group, as well as an individual and take up responsibilities.

Personal details:

Date of Birth: 16-10-1987
Father's name: Mr. Bangarappa H
Languages known: Kannada, English and Hindi
Hobbies: Watching TV, Reading Newspapers, Painting
Interests: Reading technology related magazines

Declaration:

The above information is true to the best of my knowledge.

Place: Bangalore

