

Kulbhushan Bhaji Patariya

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Professional Experience

- Working in Aeronautical Development Agency (ADA), Bangalore as Scientist since August 2013

Skill set

- Software Languages : C, Assembly, ADA 83/95, VHDL, Verilog
- Protocol Used : MIL-1553B, RS-422,
- Standards/Guidelines : DO-178B, DO-254, DOD-2167A, MISRA C, VHDL & Ada Coding
- Tools : LDRA, Mentor Graphics Questa Prime, MagicDraw, Xilinx, Cameo System Modeler, Ada Multi 2000
- Configuration Tools : IBM Rational Clear case, GIT

Academic Qualification

- M.Tech in Power Electronics and Power System from IIT Bombay.
- B.Tech. In Computer Science and Engineering. From Madan Mohan Malaviya Engineering College

Professional Details

- 8 years of experience in Software verification of Avionics Line Replacement unit
- Experienced in DO-178B and DOD-2167A Standards in Software Testing Life Cycle of Iterative V-Model for avionics S/W of level A, B & C.
- Experienced in H/W - S/W Integration Testing and Unit level testing.
- Experienced in DO-254 and prepared Guidelines for Development Life Cycle of FPGA based design and formally released to DRDO.
- Contributed towards the development of "DRDO standard for Software Development Guideline". This guideline is developed by DRDO for software development to be followed throughout DRDOs
- Carried out Design, analysis, Verification & Validation and Generation of code coverage report on FPGA Virtex-5 and Artex-7 of VHDL/Verilog based projects using Mentor Graphics Questa Prime, Xilinx tool.

Achievements

1. Released the guidelines for FPGA based projects "Formulation of Guidelines for Development Life Cycle of FPGA based Design", Released on December 2015
2. IEEE Paper, "Independent Verification and Validation of FPGA based Design for Airborne Electronic Applications", December 2018

Guest Lecture
Embedded Systems & Design

Parithosh Vema

The EC Department had organized a guest lecture on 11th April 2019 in Embedded Systems & Design. The speaker for the lecture was Mr. Kulbhushan Bhaji Patariya who is a Scientist from Aeronautical Development Agency (ADA), Bangalore. He has over 8 years of experience in Software verification of Avionics Line Replacement unit for aircrafts and is very skilled in various hardware level languages. He also contributed towards the development of "DRDO standard for Software Development Guideline". This guideline is developed by DRDO for software development to be followed throughout all the DRDOs.

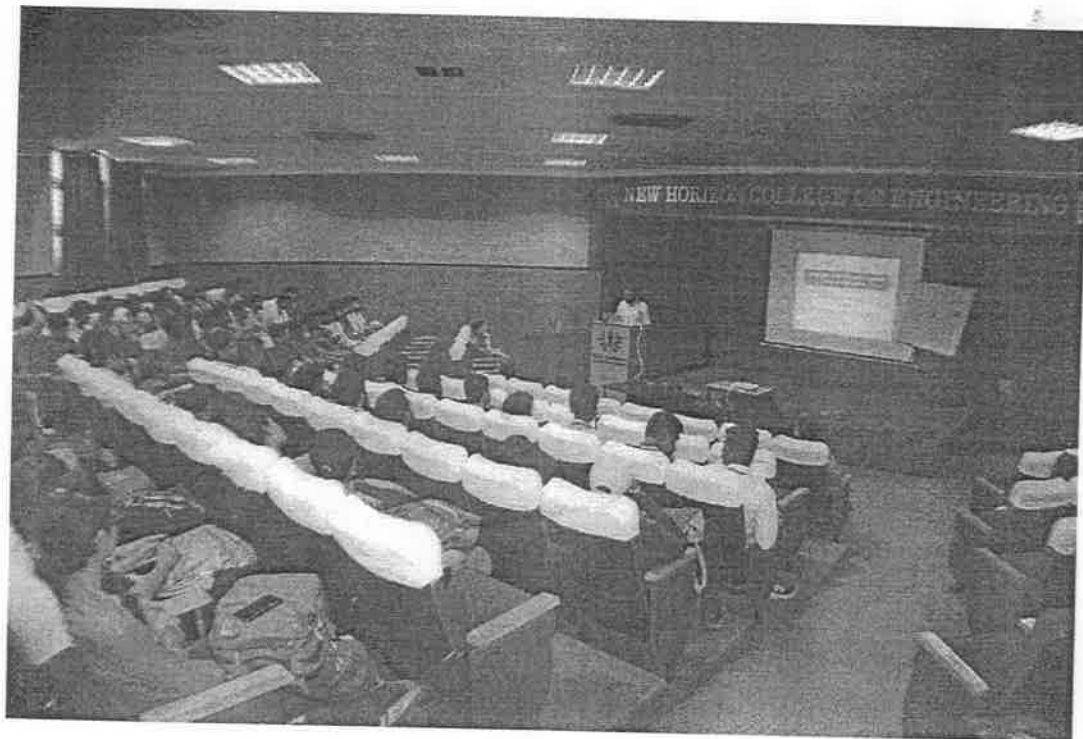


In his lecture the speaker started off by giving a brief introduction on what an embedded system is, how they are classified in different fields and the features. The session was very

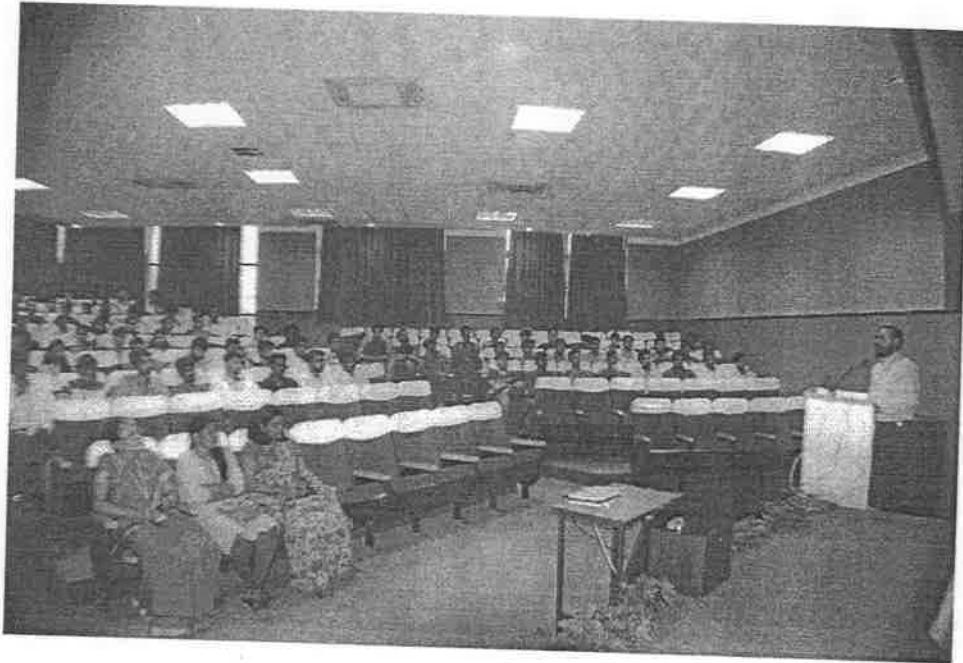
interactive, Mr. Kulbhushan told about his line of work, where the quality factors of an embedded system played an important role. As the factors were about real time situations, individual system check, behavior of the company and other factors.

He discussed the various factors by showing us a couple of videos which taught us that quality is more important than quantity, how teamwork and proper communication plays an important role.

The speaker discussed about the weapons integration on the line control unit along with the software and hardware integration in aircrafts.



He discussed about the working of aircraft pylons, he explained everything briefly such that all the students understood it. He concluded the session with a Q&A session with the students and the



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teachers.

The session ended with a vote of thanks and a felicitation to the speaker by the teacher coordinators. Mr. Kulbhushan was also presented with a sapling by the department.

Embedded System conducted on

11/4/19

NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
VI Sem "B" Sec

SL.No	USN	NAME	SIGNATURE
1	1NH16EC064	NEHA MAHESH	
2	1NH16EC066	NISHU DUBEY	
3	1NH16EC067	NITESH K	
4	1NH16EC068	NITHIN.E	
5	1NH16EC070	MAHALAKSHMI P	
6	1NH16EC071	DEEPAK P S	
7	1NH16EC072	PARITHOSH VEMA	
8	1NH16EC075	POOJA SHANTARAM NAYAK	
9	1NH16EC076	PRAJWAL.T.J	
10	1NH16EC077	PRANAY REDDY S	
11	1NH16EC078	PRASHANTH GOWDA.R.S	
12	1NH16EC079	PRAVEEN KUMAR S	
13	1NH16EC080	PRESHIKA J M	
14	1NH16EC081	PRITHIPA A	
15	1NH16EC082	R.PAVAN RAJ	
16	1NH16EC083	RAJVARDHAN	
17	1NH16EC084	RAKSHITHA N	
18	1NH16EC085	ROSHINI.M	
19	1NH16EC086	RUSHAB.S.G	
20	1NH16EC087	SAI KIRAN	
21	1NH16EC088	SAI PRASHANTH	
22	1NH16EC089	S P SAAJU	
23	1NH16EC090	SAGAR	
24	1NH16EC092	SANNAPANENI PAVANI	
25	1NH16EC093	SHAIK NOORULLA BASHA	
26	1NH16EC094	SHAIKH ASIF	
27	1NH16EC095	SHASHANK B	
28	1NH16EC096	SHRAVIN.R.SEKHAR	
29	1NH16EC097	SHRIPAD AITHAL	
30	1NH16EC098	SIDDESH JALAGERI	
31	1NH16EC099	JAGAN MOHAN REDDY	
32	1NH16EC100	SIDRAMAPPA	
33	1NH16EC101	SINDHU C R	
34	1NH16EC102	SIVA CHALLA	
35	1NH16EC103	SPOORATHY.G	
36	1NH16EC105	SUSHMA CHIKKUR	
37	1NH16EC106	T.E.HABISHEK	
38	1NH16EC107	T.SAI DEEPTHI	

39	1NH16EC109	UDIT BAHUGUNA	Udit
40	1NH16EC110	VARUN MISHRA	Varun
41	1NH16EC112	VEENA K	
42	1NH16EC113	VIDYA VISHNU	Vidya
43	1NH16EC114	VIJAY C	Vijay
44	1NH16EC115	VIJAY KUMAR C	
45	1NH16EC116	VIJAY S	Vijay
46	1NH16EC118	VISHWANATH VEERANNA	Vishwanath
47	1NH16EC119	W M MAGDOOM FUAAD	Magdoo
48	1NH16EC120	YATHIN S	Yathin
49	1NH16EC122	YESHWANTH J M	
50	1NH16EC124	YESHWANTH.M	Yesh
51	1NH16EC125	YESHWANTH.M.L	
52	1NH16EC128	SIMON CHAUHAN	Simon
53	1NH16EC129	ASHOK CHOUDHARY	Ashok
54	1NH16EC130	M.V.K BHARATH	M.V.K
55	1NH16EC131	NAMRATHA PRAKSAH	Namratha
56	1NH16EC132	PREM KUMAR	Prem
57	1NH16EC133	SRIDHAR. P	Sridhar
58	1NH17EC401	AKSHAY GAMBHIR SADALAGI	Akshay
59	1NH17EC407	GURURAJ SHIVASHANKAR NATIKAR	Gururaj
60	1NH17EC410	JYOTHI CHANDRASHEKAR	Jyothi
61	1NH17EC426	SACHIN . M	Sachin
62	1NH17EC427	SHAMBULING V . PATIL	Shambuling
63	1NH17EC430	SUSHMITHA	Sushmita

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HOD - ECE

NEW HORIZON COLLEGE OF ENGINEERING
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VI Sem "C" Sec

SL.No	USN	NAME	SIGNATURE
1	1NH14EC001	ABHIJITH S RAJ	<i>Abhi</i>
2	1NH14EC717	KEERTHANA A	<i>Keerthana</i>
3	1NH15EC007	A VIKRAM KUMAR REDDY	<i>Payma</i>
4	1NH15EC075	R RAGHAV SRIVATSAV	<i>Payma</i>
5	1NH15EC434	SUDHANYA S	<i>Sudhanya</i>
6	1NH15EC736	RISHAV PAUL	
7	1NH16EC702	ABHISHEK KHOT	<i>Abhishek</i>
8	1NH16EC703	ABHISHEK PATAJOSHI	
9	1NH16EC704	ABU BAKAR SIDDIQ	<i>Abu Bakar</i>
10	1NH16EC705	AKSHAY.V	<i>Akshay.v</i>
11	1NH16EC706	AMMIDAL VISHNU VIKAS	<i>Vikas</i>
12	1NH16EC707	ANITA CHAUHAN	
13	1NH16EC708	ANJU GOPINATH	
14	1NH16EC709	ASHUTOSH MANISH	
15	1NH16EC710	B VAMSHI KRISHNA REDDY	<i>Vamsi</i>
16	1NH16EC711	BALAJI L	<i>Balaji</i>
17	1NH16EC713	CHIRAG S	
18	1NH16EC714	GAGANA M R	<i>Gagana</i>
19	1NH16EC715	GOWRI SNEHA PRIYA S	<i>Priya</i>
20	1NH16EC716	GURRAM VENKATA NIKESH	<i>Nikesh</i>
21	1NH16EC717	HARSHITA.P	<i>Harshita.P</i>
22	1NH16EC718	JEEVAN.K	<i>Jeevan.K</i>
23	1NH16EC719	MITHUN KUMAR	<i>Mithun</i>
24	1NH16EC720	KIRAN SAGAR N P	<i>Kiran</i>
25	1NH16EC722	LINGRAJ JAMKHANDI	
26	1NH16EC723	M ANISHA	
27	1NH16EC724	M PRIYADARSHINI	<i>M.Priya</i>
28	1NH16EC725	MSVV RITVIK	
29	1NH16EC726	MANJUNATH T	
30	1NH16EC727	MANSOOR ELAHI	
31	1NH16EC728	MOHAMMED ZEESHAN ALI	
32	1NH16EC729	SIVA NAGAMUNI REDDY	
33	1NH16EC730	MOUNIKA E	
34	1NH16EC731	THILAK PRASAD	<i>Thilak Prasad</i>
35	1NH16EC733	NAWAZ KHAN	
36	1NH16EC734	NISHA ANANDU NAIK	<i>Nisha</i>
37	1NH16EC735	NIVEDITHA N	
38	1NH16EC736	NIVEDITHA R	
39	1NH16EC738	PAVITHRA.N	<i>Pavi</i>

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NEW HORIZON COLLEGE OF ENGINEERING
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VI Sem "A" Sec

SL.No	USN	NAME	SIGNATURE
1	1NH16EC001	A M AMARJITH	<i>Am</i>
2	1NH16EC002	ABHISHEK KUMAR DESHETTI	<i>Present</i>
3	1NH16EC003	ADITYA C	
4	1NH16EC004	AFZAL HUSSAIN	
5	1NH16EC005	AKHIL JOSEF	
6	1NH16EC006	AKHILESH VARMA KALIDINDI	<i>Present</i>
7	1NH16EC007	AKSHAY RAO	<i>Present</i>
8	1NH16EC008	ANMOL KUMAR	
9	1NH16EC009	ANOOP.A	
10	1NH16EC010	ANUSHA H N	<i>Present</i>
11	1NH16EC011	ARUN.P	<i>Present</i>
12	1NH16EC012	ATHIRA AJAYA KUMAR KULLULLY	<i>Present</i>
13	1NH16EC014	B SRIKANTH REDDY	
14	1NH16EC015	BHASKAR CHOUDHURY	<i>Present</i>
15	1NH16EC016	BIPIN DIXIT.H	<i>Present</i>
16	1NH16EC017	KIRAN C A	
17	1NH16EC018	ARUNA C	
18	1NH16EC019	C.LEHARIKA	<i>Present</i>
19	1NH16EC020	CETHAN S.	<i>Present</i>
20	1NH16EC023	DEEPAK KU. PRADHAN	
21	1NH16EC024	DEEPTHI R	<i>Present</i>
22	1NH16EC025	DENNIS VINCENT PAULRAJ	<i>Present</i>
23	1NH16EC028	ELLINKI JAHAVI	
24	1NH16EC030	G AVINASH	<i>Present</i>
25	1NH16EC031	GIRISH JATTU GOUDA	<i>Present</i>
26	1NH16EC032	HARI PRASAD.R	<i>Present</i>
27	1NH16EC033	HARSH SRIVASTAVA	<i>Present</i>
28	1NH16EC034	JAGADEESH.D	<i>Present</i>
29	1NH16EC035	JANANI.R.R	<i>Present</i>
30	1NH16EC036	GIRIVARDHAN K	<i>Present</i>
31	1NH16EC037	KALAMADI SREELEKHA	<i>Present</i>
32	1NH16EC039	KIRAN N	
33	1NH16EC040	KISHORE N	
34	1NH16EC041	K. VENKATA MOUNISH REDDY	<i>Present</i>
35	1NH16EC042	KORVI CHANDRA KIRAN REDDY	
36	1NH16EC043	KUSHI PONNAMMA.K.P	
37	1NH16EC044	LALITHAMBHA S M	<i>Present</i>
38	1NH16EC046	SACHIT M	<i>Present</i>
39	1NH16EC047	MADAN GOWDA.M	<i>Present</i>
40	1NH16EC048	MADHU M BEVAMANE	<i>Present</i>
41	1NH16EC049	MANJULA.S	
42	1NH16EC050	MANJUNATH N	<i>Present</i>
43	1NH16EC052	MAURYA REDDY	
44	1NH16EC053	MEGHASHREE H M	

✓45	1NH16EC054	MEGHANA V	Present
✓46	1NH16EC055	MEGHASHREE R	Present
✓47	1NH16EC056	MISBAH TABASSUM AEJAZ	Present
✓48	1NH16EC057	MITHUN.V	Present
✓49	1NH16EC058	MOHAMMED ANAS	Present
✓50	1NH16EC059	MOHAMMED FAROOQH PASHA	Present
✓51	1NH16EC060	MOHIT R	Present
✓52	1NH16EC061	MOHIT SAHU	Present
✓53	1NH16EC062	MUJEER PASHA	Present
✓54	1NH16EC063	MAHESHWARI N	Present
✓55	1NH16EC135	AKULA ANIL BHARATH	Present
✓56	1NH16EC137	ANUPOJU SAI VENKAT THIRIMURTHY	Present
✓57	1NH16EC138	ASHISH KUMAR . S	Present
✓58	1NH16EC139	KARTHIK . K . S	Present
✓59	1NH17EC400	AKASH PRASAD C	Present
✓60	1NH17EC402	ARATHI . V	Present
✓61	1NH17EC403	BHAVANI . V	Present
62	1NH17EC412	KIRAN . R	
63	1NH17EC423	RAJESHA . T . A	
✓64	1NH17EC429	SUPRITHA H . D	Present

HOD - ECE

**NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FEEDBACK FORM**

NAME OF THE EVENT/CLUB: APPLICATION OF EMBEDDED SYSTEM (SEMINAR)

FEEDBACK ON (Mention the topic): APPLICATION OF EMBEDDED SYSTEM **DATE:** 3/8/19

Instruction: Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good	✓		✓	✓	✓
Average		✓			
Satisfactory					

Comments/Remarks/Suggestions:

1. Good

2.

3.

Name & USN No.(optional)

Signature (optional)

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**NEW HORIZON COLLEGE OF ENGINEERING
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FEEDBACK FORM**

NAME OF THE EVENT/CLUB: *Application of Embedded system*

FEEDBACK ON (Mention the topic):

DATE: *3/5/19*

Instruction: Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good	✓		✓	✓	✓
Average		✓			
Satisfactory					

Comments/Remarks/Suggestions:

1. *screen was not visible*

2.

3.

Name & USN No. (optional) - *LNHI7ECH15 [Manasa.C]*

Signature (optional) *Manasa.C*

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**NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FEEDBACK FORM**

NAME OF THE EVENT/CLUB: *Embeadded System design*

FEEDBACK ON(Mention the topic): *Apflication of Embeadded system* **DATE:** *3/5/19*
Instruction: Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good		✓	✓		
Average	✓			✓	✓
Satisfactory					

Comments/Remarks/Suggestions:

- 1.
- 2.
- 3.

Chithra Shree

Name & USN No.(optional)

Chithra

Signature (optional)

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**NEW HORIZON COLLEGE OF ENGINEERING
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FEEDBACK FORM**

NAME OF THE EVENT/CLUB: *Application of Embedded System*

FEEDBACK ON (Mention the topic): *Embedded System*

DATE: *3/5/19*

Instruction: Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good	✓		✓	✓	
Average		✓			✓
Satisfactory					

Comments/Remarks/Suggestions:

- 1.
- 2.
- 3.

Rachana.S.

Name & USN No.(optional)

[Signature]

Signature (optional)