

CURRICULUM VITAE

M VINODH KUMAR

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Career Objective

Looking for an organization that leads me to a Learning environment with extensive chances to contribute and diversify my knowledge and skills, challenges me intellectually and offers me a good potential for future growth.

Personal Profile

- Excellent team playing ability with good communication & presentation skills & swift learning skills.
- Willingness to learn advances in Science & Technology

Academics

Examination	Specialization	University	Institute	Year of Passing	Percentage
M.Tech	Power Electronics	VTU	St Joseph Engg College (SJEC)	2013	72.67
BE	Electronic & Communication	VTU	M.S Engg College (MSEC)	2007	55.00
PUC	PCMB	BU	First Grade College (FGC)	2002	44.00
SSLC	State Syllabus	KSEEB	St,Mary's Boy's High School	2000	73.14

Work Experience

- **Completed M.Tech Project training in Indian Space Research Organisation (ISRO), Bangalore on Weinberg Converters from Sep 2012 to June 2013.**

Project Details:

Weinberg Converter is a DC to DC Converter which is the advanced version of Basic converters i.e., Buck, Boost, Buck-Boost & other converter such as CUK, SEPIC converter. It is the modified version of SEPIC converter. This converter is modeled, analysed & developed using state space analysis & MATLAB – Simulink Model. Hardware design is implemented as Isolated & Non Isolated Weinberg Converter. The circuit consists of combination of Coupled Inductor as Flyback converter and Transformer as current fed push pull converter. This project is first time designed & modeled by us & also applied for IEEE registration.

Software Skills : Matlab & Simulation, Multisim, designed using State Space Analysis

Hardware Skills: Modeled on PCB, Heat Sink, winding of Inductor & Transformer as per derived turns ratio.

Technical Skills

- **Languages** : C programming, C++, Java
- **Software Packages** : MATLAB & Simulink, LabView, Multisim
- **Operating systems** : MS DOS, Windows, MS Office
- “PC Assembly & Trouble Shooting” Three months training course undergone in Govt. Tool Room & Training Centre (GTTC).
- Certified Automation Professional (CAP) from Industrial String Automation as 6 days Training Programme on PLC
- **Hardware Skills** : VLSI, VHDL, Digital Communication
 - **VHDL** :- Knowledge in basic concepts of Programmable Logic Device (PLD), Complex Programmable Logic Device (CPLD) and Field Programmable Logic Arrays (FPGA), Digital Design by using **VERILOG/VHDL** using **XILINX ISE 8.1, XILINX ISE 9.1 & XILINX ISE 10.1 software.**
 - Knowledge in Analog Integrated Design methodologies of OPAMP & its applications
 - **Digital Communication** :- Knowledge in Digital Communication Design involving

- Digital Communication Techniques (DCT) such as Sampling
- Digital Coding of Analog Signals (DCAS) such as PCM, DPCM, DM, ADM
- Digital Modulation Techniques (DMT) such as ASK, FSK, PSK
- Multiplexing Techniques such as TDM, FDM

Project Experience

1)

Organization	Indian Space Research Organisation (ISRO), Bangalore
Division	ISAC & ISITE Division, Bangalore
Project Title	“Modeling, Analysis and Development of Weinberg Converter”
New Registered IEEE Paper Titled	“Modeling , Analysis and Development of Weinberg Converter”
Position	Project Trainee
Tenure	Sep 2012 to June 2013
Team Size	One
Department	Checkout Unit
Reported to	(Dr.) C.K Gowrishankar, Scientist - SF
Platform Used	Matlab& Simulink, Multisim
Working On	Both Software & Hardware Modeling

2)

Organization	Hindustan Aeronautics Limited (HAL), Bangalore
Division	Engine Division, Bangalore Complex
Name of Project	Summer Project
Project Title	“Design of Wireless Sensing for Measurement of Aero Engine Parameters”
Position	Project Trainee
Tenure	Dec 05 – Feb 06

Team Size	Two
Department	ET & BRC
Reported to	Mr. G N Ramakrishnan, Design Engineer

Hobbies and Interests

- Reading books
- Surfing net

Personal Details

Father's Name : I Muniswamy
 Date of Birth : 26th Sep 1984
 Sex : Male
 Nationality : Indian
 Address : c/o Dhasegaran
 # 14, 2nd cross
 Guru Mahal Extn
 KG Halli , Jalahalli West
 Bangalore - 560015
 Mobile number : 9535069984
 Passport : YES Hold
 Date of Passport Expiry : 17/07/2023
 Languages : English, Kannada, Hindi, Tamil

Declaration

The above-furnished details are true to the best of my knowledge & belief.

Place : Bangalore
 Date :

Yours truly

(M.VINODH KUMAR)