

2015



CARRICULUM VITAE



Er. VipinKumar Rajendra Pawar

**Masters in Engineering- VLSI & EMBEDDED SYSTEMS
(University of PUNE)**

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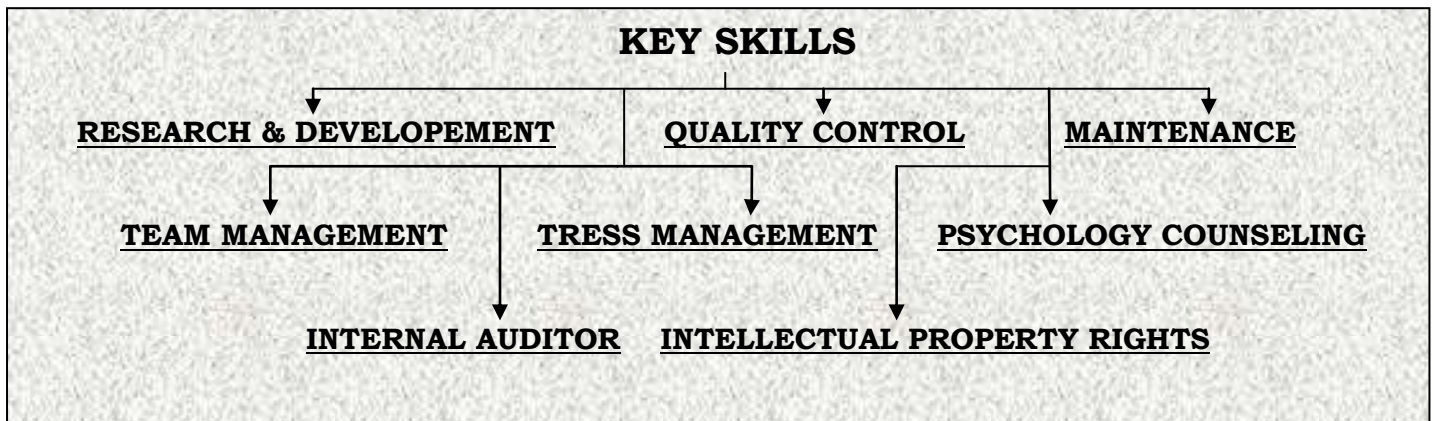


**A Better Today,
A Brighter Tomorrow**

IN QUEST OF PROVIDE GOOD KNOWLEDGE IN TECHNOLOGY WITH
AN ORGANIZATION OF HIGH REPUTE.

SYNOPSIS

Proficient at executing good safety and health improvement practices for optimum utilization of resources and providing them with a safe working environment. Excellent interpersonal & negotiation skills with strong problem solving & organizational abilities.



HIGHLIGHTED PROFILE

✓ Invited as **RESOURCE PERSON** for

- ❖ Workshop on “Microcontroller & **Embedded Systems**”(Dec’2015):- One day workshop conducted by **Kadwa polytechnic, Rajaramnagar, Dist. Nashik**
- ❖ Technical Paper Presented at National level **ePG-Conference-2014** on “**Wireless Rescue Caller & Data Analyzer**” at **K.K.Wagh College of Engineering & Research Centre, Nashik**
- ❖ State Level Workshop on “**PCB ARTWORK DESIGN**”(25th & 26th Nov’2013):- State Level Two days workshop conducted by **Sandip Polytechnic, Mahiravani, Dist. Nashik**
- ❖ Workshop on “**Embedded Systems & PCB Design**”(25th & 26th Nov’2013):- One day workshop conducted by **Kashinath Mengal Polytechnic, Ghoti, Dist. Nashik**

RESEARCH PUBLICATIONS

Research Paper Published/Present	Details
Paper Published on "Emotion Recognition from Hindi Speech using MFCC and Sparse DTW"	International Journal of Engineering Research & Technology (IJERT)/ ISSN: 2278-0181/ Volume. 4 - Issue. 06 , June - 2015
Paper Published on "Introduction-Wireless Local Area Sensor Network Protocol for Rescue Calling"	International Journal of Engineering Research & Technology (IJERT)/ ISSN: 2278-0181/ Vol. 3 Issue 6, June - 2014
Paper Presented on "Wireless Rescue Caller & Data Analyzer"	ePG-Conference-2014 at K.K.Wagh College of Engineering & Research Centre, Nashik

TECHNICAL PROFILE

Research & Development

- ⇒ Introduced innovative ideas for maintaining the Production & Quality ratio
- ⇒ Maintaining the Quality as per Industrial Standards.
- ⇒ Developing complex and tiny circuits for cost effectiveness and efficient.
- ⇒ Improving quality level of Design through updated reference book, Software & training programs related to Design..
- ⇒ Giving priority for Client requirement & Satisfaction.

PCB Designing

- ⇒ Solving all types of curries regarding PCB Layout.
- ⇒ Maintaining the Production ratio.
- ⇒ Single sided and for complex design, double OR multilayered PCB can be design.
- ⇒ Improving quality level of Design through updated reference book, Software & training programs related to PCB artwork Design..
- ⇒ Giving priority for Client requirement & Satisfaction.

Management

- ⇒ Improving contacts & relations with fastest growing firm to provide good quality of service.
- ⇒ Organize Client and Vendor meetings & event for better result & good reputation.
- ⇒ Organizing practical and theoretical training programs to enhance skills and motivational levels.
- ⇒ Maintaining the discipline and happy environment for team members.
- ⇒ Improving the skill and work efficiency of team

Interpersonal Skill

- ⇒ Ability to handle large scale team
- ⇒ Ability to handle all problems in team.
- ⇒ Ability to plan the project as per the available team with its skills.
- ⇒ Maintaining the discipline and happy environment for team members.
- ⇒ Improving the skill and work efficiency of team

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PROFESSIONAL JOURNEY

<ul style="list-style-type: none"> ❖ ORGANIZATION ❖ DURATION ❖ DESIGNATION ❖ KEY DELIVERABLE 	<p>-: Sanghavi College of Engineering, Nashik</p> <p>-: <i>June 2014 to Till Date</i></p> <p>-: Assistant Professor</p> <ul style="list-style-type: none"> ➤ Knowledge of Documentation regarding Monitoring Committee, Student's Records, Departmental Activity file, LAB utilization Files...etc ➤ Departmental Documentation. ➤ Laboratory establishment as per university rules. ➤ Knowledge of Subject, Team Management, Mentainance of Practical Equipments. ➤ Having great experience in University Exam Department ➤ Having best experience for event management (ANTARANG'15).
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<ul style="list-style-type: none"> ❖ ORGANIZATION ❖ DURATION ❖ DESIGNATION ❖ KEY DELIVERABLE 	<p>-: Shatabdi Engineering College & Research Centre</p> <p>-: <i>01 June 2012- May 2014</i></p> <p>-: Assistant Professor</p> <ul style="list-style-type: none"> ➤ Knowledge of Documentation regarding Monitoring Committee, Student's Records, Departmental Activity file, LAB utilization Files...etc ➤ Knowledge of Subject, Team Management, Mentainance of Practical Equipments & documentation of Department. ➤ Conducting troubleshooting activities including training for students and testing of product ➤ Knowledge of instruments used for practical Assessment.
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<ul style="list-style-type: none"> ❖ ORGANIZATION ❖ DURATION ❖ DESIGNATION ❖ KEY DELIVERABLE 	<p>-: A.P.Enterprises(Bajaj Electrical Vendor Company)</p> <p>-: <i>01st November 2011 to 31st May 2012</i></p> <p>-: Plant Supervisor</p> <ul style="list-style-type: none"> ➤ Knowledge of Quality Control, Team Management, Mentainance & packaging Department. ➤ Supervising the shift to achieve daily production plan with desired quality of product. ➤ Conducting troubleshooting activities in daily Quality including training for workers and testing of product. ➤ Knowledge of instruments used for testing the product for Quality. ➤ Working with continuous improvement team.
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ACADEMIC REPORT

COURSE	BRANCH / SPECIALIZATION	BOARD / UNIVERSITY	YEAR of Passing	%/CGPA
PhD	WSN	CENTRAL UNIVERSITY OF GUJRAT	PET CRACKED	NATIONAL RANKED 54
Masters in Engineering	VLSI & EMBEDDED SYETMS	University of PUNE	2014	7.25 CGPA
Bachelors of Engineering	Electronics & Telecommunication	University of MUMBAI	2011	60.19%.
HSC	Science	Maharashtra State Board	2005	63.17%
SSC	Hindi-Sanskrit	Maharashtra State Board	2003	62.66%



IT KEY SKILLS


SOFTWARE	SPECIFICATIONS	EXPER LEVEL out of 5(*****)
• MultiSim	: Electronics Circuit Simulation	*****
• ProteUs	: Digital Electronics Circuit Simulation	*****
• Eagle PCB	: PCB layout designer software	*****
• Xilinx ISE	: VLSI based circuit simulation	**
• Microsoft Office	: Office documentation	****
• EdSim51	:Assembly Programmer for 8051	*****
• MPLAB	:Assembly & C Programming for PIC Controllers	****
• MATLAB	:Advanced Coding for Engineering	***
• Keil MDK	: C Editor/Assembler/Debugger for 8051 & ARM7,9,10,11(CORTEX)	*****
• VISUAL STUDIO	Visual Basics IPE	***

CERTIFICATES & ACHIEVEMENT


Certificate Topics	Workshop /seminar	Locations	Durations
MATLAB & It's Applications	Workshop	Department of E&Tc Engg., Sandip Polytechnic, Nashik	<u>23rd & 24th January'2014</u>
Artificial Neural Network	Seminar	SND College of Engineering & Research Centre, Yeola, Dist. Nashik	<u>8th & 9th March'2013</u>
Web Designing	Diploma	IT Professionals, Nashik	<u>11th Oct. 2012 to 22nd January'2013</u>
Hardware & Networking Engineering	Diploma	IT Professionals, Nashik	<u>11th Oct. 2012 to 11th December'2012</u>
Embedded Robotics	Workshop	Department of Instrumentation Science, University of PUNE	<u>6th & 7th October'2012</u>
Embedded Systems Developer	Diploma	PROLIFIC AUTOMATION, CHINCHWAD, PUNE	<u>11th July 2011 to 22nd Sep.'2011</u>
Cisco Certificate Network Administration	Seminar	IETE Students forum and SMT. Indira Gandhi College of Engineering, Navi Mumbai	<u>16th April'2010</u>
राष्ट्रभाषा बालबोधिनी	Competitive Exam	Maratha High School, Nashik	<u>Sept.'1997</u>

EMBEDDED SYSTEMS PROTOTYPES

<p>❖ NAME OF PROJECT</p> <p>❖ KEY ROLE</p> <p>❖ TOOLS USED</p> <p>❖ DETAILS</p>	<p>-: WIRELESS RESCUE CALLER & DATA ANALYZER</p> <p>-: Fire, Hazardous GAS leakage, Unauthorized Entry and calls Ambulance, Police & Fire Brigade for Rescue operation.</p> <p>-: Proteus, MultiSim, Eagle 6.1</p> <p>-: Especially Designed for Industrial as well as residential areas for providing alert message when accident is going to occurred as Fire, Hazardous GAS leakage, Unauthorized Entry and calls Ambulance, Police & Fire Brigade for Rescue operation.</p>
<p>❖ NAME OF PROJECT</p> <p>❖ KEY ROLE</p> <p>❖ TOOLS USED</p> <p>❖ DETAILS</p> 	<p>-: RS-232 to USB Serial Communication (Module)</p> <p>-: Designed for Laptops which do not have Serial port(DB-9 Connector).</p> <p>-: Proteus, Eagle 6.1</p> <p>-: Convert RS-232 serial data to USB synchronous Serial Data</p>
<p>❖ NAME OF PROJECT</p> <p>❖ KEY ROLE</p> <p>❖ TOOLS USED</p> <p>❖ DETAILS</p> 	<p>-: Infrared Object Detector (Module)</p> <p>-: Object tracking, Counter circuit, Unauthorized entry detectors..etc.</p> <p>-: Proteus, MultiSim, Eagle 6.1</p> <p>-: Sense the object comes near to Module and gives positive pulse to Interfacing Device like μC, μP, etc.</p>
<p>❖ NAME OF PROJECT</p> <p>❖ KEY ROLE</p> <p>❖ TOOLS USED</p> <p>❖ DETAILS</p>	<p>-: Remote Controlled HOME AUTOMATION SYSTEM</p> <p>-: RC-05 Protocol Follower System</p> <p>-: Proteus, Eagle 6.1</p> <p>-: RC-05 Protocol Follower systems can drive lots of Relays as per the requirement of User/Consumer driven by AT89C2051/AT89C89C51/AT89S52 μC.</p>



❖ **NAME OF PROJECT** -: **UltraSonic Distance Tracker (Module)**
 ❖ **KEY ROLE** -: Sense the object comes near to Module and calculate the distance in centimeter(cm.) & send the result to Computer port via RS-232(DB-9)
 ❖ **TOOLS USED** -: Proteus, Eagle 6.1
 ❖ **DETAILS** -: Object tracking, Distance calculator..etc.






❖ **NAME OF PROJECT** -: **Anti-collision Vehicle Module**
 ❖ **KEY ROLE** -: Especially Designed for Industrial as well as residential trailer or Car for preventing collision with wall/another vehicle
 ❖ **TOOLS USED** -: Proteus, Eagle 6.1
 ❖ **DETAILS** -: Senses object come into the path of vehicle and automatically Apply the breaks



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❖ **NAME OF PROJECT** -: **Wireless Multiple Detector**
 ❖ **KEY ROLE** -: Especially Designed for Industrial as well as residential areas for providing Alert message when accident is going to occurred
 ❖ **TOOLS USED** -: Proteus, Eagle 6.1
 ❖ **DETAILS** -: Senses Fire, Hazardous GAS leakage, Unauthorized Entry and Calls Ambulance, Police & Fire Brigade for Rescue operation.

❖ **NAME OF PROJECT** -: **VKz 8x8 DOT Matrix LED Display**
 ❖ **KEY ROLE** -: AMS8X8AB is a kind of integrated serial input/ output common cathode display driver, it connects microprocessor and 8-digit seven period of digital LED display, also can be connected to the bar graph display or 64 independent LED. Easy to interface with arduino, Raspberry Pi or any other microcontroller.

❖ **TOOLS USED**

-: Proteus, Eagle 6.1

❖ **DETAILS**

-:

1. Brand new AMS8X8AB Red LED Dot Matrix Module MCU Control Module
2. A single module can drive one 8x8 common cathode lattice
3. With 4 fixed screw holes for easy installation
4. Module with input and output interfaces, supports multiple modules cascade
5. Great for projects DIY

❖ **NAME OF PROJECT**-: **VKz LPC2148 ARM Header Board**❖ **KEY ROLE**

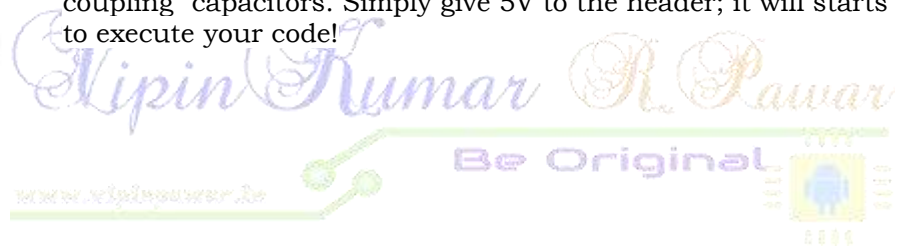
-: Low Cost Board that can be used to quickly evaluate and demonstrate the capabilities of NXP LPC2148 (ARM7TDMI) microcontroller.

❖ **TOOLS USED**

-: Proteus, Eagle 6.1

❖ **DETAILS**

-: The Header board is designed as DIP package with access to all Port pins for external connection. The LPC2148 ARM Header Board consists all basic components required to function the microcontroller. The board is populated with voltage regulators, RTC crystal, Main Crystal and necessary decoupling capacitors. Simply give 5V to the header; it will start to execute your code!

❖ **NAME OF PROJECT**-: **VKz Wireless Door Break Sensor**❖ **KEY ROLE**

-: Transmits unique ID for brief moment when magnet goes far of internal reed switch. Useful as door window entry wireless alarm. RF transmitter at 433 Mhz, around 100 meters range

❖ **TOOLS USED**

-: Proteus, Eagle 6.1

❖ **DETAILS**

-: Each unit has unique 32 bit ID, which is transmitted on 433 Mhz frequency upon detection of door/window opening. The sensing concept is magnetic reed switch which gets triggered when distance between two units increase more than 1.5cm. One unit has magnet inside and another has reed switch which senses the magnet.

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PCB PROTOTYPES

DESIGN	COMPLEXITY	PCB MATERIAL
Sensor Node(Rescue Caller)	2 Layer	Paper Phenolic
Master Node(Rescue Caller)	2 layer	Paper Phenolic
Ultrasonic Distance Meter	2 layer	Glass Epoxy
IR sensor(Home Automation)	1 layer	Paper Phenolic
RS-232 to USB Serial Communication (Module)	1 layer	Glass Epoxy
Infrared Object Detector (Module)	1 layer	Paper Phenolic
Wireless Multiple Detector	1 layer	Paper Phenolic
LED Emergency Lamp	1 layer	Paper Phenolic
LED & 7-Segment combination module	2 layer	Glass Epoxy
AT89C51RD2 Trainer Kit	1 layer	Glass Epoxy
LED add-on card	1 layer	Glass Epoxy
Anti-Collision Robot mother board	2 layer	Glass Epoxy
DC Motor Controller (Module)	1 Layer	Glass Epoxy
Robot car motherboard	1 Layer	Paper Phenolic
Robotics SMPS	2 layer	Glass Epoxy
Led matrix array decoder	1 layer	Paper Phenolic
VKz Wireless Door Break Sensor	2 layer	Glass Epoxy
VKz LPC2148 ARM Header Board	2 layer	Glass Epoxy
VKz 8x8 DOT Matrix LED Display	1 layer	Paper Phenolic

PERSONAL INFORMATION

- ❖ **FULL NAME** -: **Er. VipinKumar Rajendra Pawar**
- ❖ **DATE OF BIRTH** -: 18th August 1987
- ❖ **BIRTH PLACE** -: Kopargaon, Dist. Ahamad Nagar, Maharashtra, India
- ❖ **HOBBY** -: * TRAVELING
* DRIVING
* Reading Marathi Novels
* Net Surfing
* Walking
* Gardening
- ❖ **PERMANENT ADDRESS** -: 4, Roop-Sangam society-B
Snehanagar, Dindori Road,
Mhasrul, Nashik, Maharashtra, INDIA-422004
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- ❖ **WEBSITE** -: **www.vipinpawar.in**

Place-: Nashik

Date-: / /201



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