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EDUCATION:

B. Tech. (Hon.)	IIT-Bombay	1973	Electrical Engineering
Diploma of Philips International Institute	Eindhoven, Holland	1974	Digital Technique
Master of Electronic Engineering	NUFFIC, Holland	1975	Data Communication

EXPERIENCE:

Tata Engineering & Locomotive Co. Ltd. (TELCO), Pune	1975 - 1978
Electronica Pvt. Ltd., Pune	1978 - 1982
Ashok Saraf And Associates	1982 - 2006
KPIT Cummins Infosystems Ltd. Japan	2006 - 2008
Ashok Saraf And Associates	2008 - 2009
Jain Irrigation Systems Ltd	2010
Battelle India	2011-2013
Syslab Automation Pvt Ltd	2013-

HONORORY ASSIGNMENTS:

Trustee	Science & Technology Park, University of Pune.
Chairman	Pune Electronics Co-operative Society Ltd., Pune.

EXPERTISE:

- **Electronic Design**
- **Microprocessor Systems**
- **Computer Software Development Projects**
- **Management of Industrial Units.**
- **Project Management.**
- **Entrepreneurship Development.**
- **Manpower Development and Training.**
- **VLSI Design Verification**
- **Outsourcing Management**
- **Japanese Accounts Management**
- **Business Advisor**
- **Mentoring for new start ups**

SOME OF THE ORGANISATIONS WORKED FOR AS CONSULTANT:

- **Accurate Engineering, Pune**
- **BALCO, Korba.**
- **Infosys, Bangalore.**
- **BHEL Research and Development, Bangalore.**
- **Central Institute for Higher Tibetan Studies, Sarnath.**
- **Electronica**
- **Gujarat High Court, Ahmedabad.**
- **Kirloskar Pneumatics Co., Pune**
- **Kirloskar Oil Engine, Pune**
- **SAJ Froude Test Plant Pvt. Ltd.**
- **Sakal Papers Ltd., Pune**
- **TELCO, Pune**
- **KPIT , Pune**
- **Q-Soft Pvt. Ltd., Pune**
- **Jain Irrigation Systems Ltd.**
- **SBEM Pvt Ltd.**

Experience in various Projects:

Year	Area	Project Description	Role	Organization
2013-14	Quality Management Software	Implementation of Blulink Quarta Sofwtare solution in Indian market	Systems Consultant	Accurate-Blulink.
2013	Japan Engagement	Connect with Japanese SME for potential support in India market	Advisor, International Business	Messung Global Connect
2011-2013	Research	Electronics R & D projects	Research Leader	Battelle India
2010	Electronics R&D and Production	Setting up and managing Electronics R&D and Production unit for Energy Park at Jain Irrigation Systems Ltd Jalgaon	Sr. Vice President and Advisor to Chairman	Jain Irrigation Systems Ltd. Jalgaon
2009	Metrology	CAM Shaft inspection Machine Software	Consultant	Accurate
2008	VLSI	Nanotime Usage for Model Generation for MCU VLSI circuit	Engagement Manager	KPIT Japan
2008	VLSI	Middleware Tiny Library modules	Engagement	KPIT Japan

			Manager	
2008	VLSI	Digital Fault Simulation using ZO1X	Engagement Manager	KPIT Japan
2007	VLSI	DVD SoC	Engagement Manager	KPIT Japan
2007	VLSI	AMS VLSI Design for MCU , Power management , Clock and ADC/DAC	Engagement Manager	KPIT Japan
2007	VLSI	CAN Gateway Verification	Engagement Manager	KPIT Japan
2007	VLSI	DDR IP design	Engagement Manager	KPIT Japan
2006	VLSI	IO Design	Engagement Manager	KPIT Japan
2006	Embedded	TV SoC Ref. design development	Onsite Engineer and Engagement Manager	KPIT Japan
2006	VLSI	Memory Model	Engagement Manager	KPIT Japan
2006	Embedded	Application Tool design and testing	Engagement Manager	KPIT Japan
2006	Embedded	DVD Soc Firmware Design	Engagement Manager	KPIT Japan
2006	Embedded	Electric Vehicle Control System design for Mahindra & Mahindra R&D	Consultant	S & T Park, Pune University
2005	VLSI, Education	ixed Signal VLSI design projects faculty	Faculty	MSRSAS, Bangalore
2005	Systems	Sattelite Image based Survey project	Consultant	LAVASA, Science & Technology Park , Pune University
2005	Systems	Development of LPG Dispensing system	Consultant	Vanaz Engineering
2005	Embedded	Development of Gas Vonversion Systems for Automotive	Consultant	Vanaz Engineering
2004	IT , Web Based Solution	Software Development for CRM system	Project Consultant	Electronica

Year	Domain	Project	Role	Client
2003	IT, Client Server Solution	Software Development for Finance and Leasing Company	Project Consultant	Electronica
2001	IT , Desktop Solution , IP	Software Development for Machine Vision based Metrology	Project Consultant	QVI Group , USA
2001	IT, Industrial Solution, IP	Software Development for CNC EDM machines	Technical Consultanat	Electronica
2001	IT, Industrial Solution, IP	Software Development for CNC Wirecut EDM machines		Electronica
1999	IT, Industrial Solution, IP	Software Development for Tank Farm management System	Technical Consultant	SBEM Pvt Ltd
1997	Embedded	Compact Microprocessor controller for plastic molding machine	System Design Engineer and Director	Syslab
1997	Embedded	Development of PC based Gear Roll Testing machine	System Design Engineer and Director	Syslab
1997	Embedded	Public Display System for PLC for shop floor use.	Technical Director	Syslab
1997	IT, Industrial Solution, IP	Windows based Engine Test system software.	Technical Consultant	SAJ Test Plant Automation Pvt Ltd.
1997	IT, Consulting	Computerization at Institute of Higher Tibetan Studies.	Technical Consultant	CIHTS , Sarnath
1997	Operations	Setting up holistic educational Institute with electronics and computer technology curriculum as base.	Director and Faculty	Ujjivinee
1996	Embedded	Electronics Attendance Recorder with PC based software.	Design Engineer and Director	Syslab
1996	Embedded	Microprocessor controller and data acquisition system for Burning in system for lighting arrestor blocks	System Design Engineer and Director	Syslab
1996	Embedded	Microprocessor controller (Mitsubishi equivalent) for Plastic Molding machine	System Design Engineer and Director	Syslab
1996	Embedded, DSP	Radar Level Gauge Development (Microwave & DSP)	Technical Consultant	SBEM Pvt Ltd

1996	IT, Consulting	Project Report for Modern High Court Building	Technical Consultant	Gujarat High Court , Ahmedabad
1996	ICT, Consulting	Rural Communication System using CB Radio	System Developer and Contractor	District Collectorate Yawatmal
1996	Embedded	Refrigerated van temperature recorder/printer	System Design Engineer and Director	Syslab
1996	IT , HR Consulting	Starting up Software Export Unit	Consultant	Perisol, Pune
1996	ICT, Consulting	Setting up Social project groups based on IT	Consultant	Prayog Pariwar
1995	VLSI	Setting up and mentoring a Mixed signal VLSI design group for a company in Hyderabad	Technical Consultant and Delivery Manager	Vyamenich Design Hyderabad
1995	VLSI	Calibration DAC schematic to GDS	Technical Consultant and Delivery Manager	Vyamenich Design Hyderabad
1995	VLSI	300 MHZ 6 Bit Flash ADC schematic design	Technical Consultant and Delivery Manager	Vyamenich Design Hyderabad
1995	VLSI	GmC Filter IP design	Technical Consultant and Delivery Manager	Vyamenich Design Hyderabad
1995	Embedded	Microprocessor Controller for Windsor range of Plastic Molding Machine	Design Engineer and Director	Syslab
1995	Embedded	Automatic Test System for lighting Arrestor blocks	System Design Engineer and Director	Syslab
1995	Embedded	PID Controller and instrumentation system for TV Tube plant.	System Design Engineer and Director	Syslab
1995	Embedded	Industrial PC for Bearing Production line	System Design Engineer and Director	Syslab

1995	Embedded	MMI Display for PLC systems	System Design Engineer and Director	Syslab
1994	Embedded	Programmable Process Controller for Flow control	Design Engineer and Director	Syslab
1994	Embedded	Microprocessor controller for Sulphur burner in sugar factory	Design Engineer and Director	Syslab
1994	Embedded	Microprocessor controller for tapping machine	Design Engineer and Director	Syslab
1994	Embedded	Programmable Automatic Cable Harness Testers for Automobile	System Design Engineer and Director	Syslab
1993	Embedded	Digital Gauging Products as OEM for LVDT	Design Engineer and Director	Syslab
1993	Embedded	Microprocessor Controller for KAUSY make Plastic Molding Machine as retrofit	Design Engineer and Director	Syslab
1993	Embedded	Shop floor Data Collection and Productivity Monitoring System for M/s. Kirloskar Pneumatics Ltd. (PC Based.)	Design Engineer and Director	Syslab
1993	Embedded	Metrological Data Collection and Gauge data Management System for M/s. Kirloskar Pneumatics Ltd. (PC Based.)	Design Engineer and Director	Syslab
1993	Embedded	Calibration and Maintenance of Metrology Instruments	Technical Consultant	Kirloskar Pneumatics Ltd
1993	Embedded	Reverse Engineering study of PLC system for Assembly Machine	Design Engineer and Director	PHILIPS
1993	Embedded	PLC Simulation and Programming software on PC	Design Engineer and Director	Syslab
1993	Embedded	Industrial PC for CNC system based on PC	System Design Engineer and Director	Syslab
1993	Embedded	Automatic Irrigation schedule controller for farms	System Design Engineer and	Syslab

			Director	
1992	Embedded	Production monitor for biscuit making machine.	Design Engineer and Director	Syslab
1992	Embedded	Supply voltage monitor printer.	System Design Engineer and Director	Syslab
1992	Electronics	Electronic Ballast	System Design Engineer and Director	Syslab
1991	Operations	Setting up Engine Technology Consultancy Unit	Managing Director	SAJ Autotech Pvt Ltd.
1991	Embedded	Microprocessor based fuel consumption measurement unit	System Design Engineer and Director	Syslab
1990	Embedded	Cable Harness Tester for MIG Aircraft cable Looms	Technical Consultant	ASAA
1990	Embedded	PC Keyboard for Industrial use (Steel Mill)	System Design Engineer and Director	Syslab
1989	Embedded	Preparation of Product Development Plan for Network Products	Technical Consultant	Infosys
1989	Embedded	Electronic Maintenance for Automobile Manufacture Plant	Technical Consultant	Mahindra & Mahindra
1989	Embedded	PC based CNC controller for co-ordinate measuring machine	Design Engineer and Director	Syslab
1988	Embedded	Frontline Test Rig for Jaguar Aircraft.	Technical Consultant	ASAA
1988	Operations	Project report for Center for Electronics Design and Technology	Technical Consultant	ASAA
1988	ICT, Consulting	Computerization for Local Newspaper Industry	Technical Consultant	ASAA
1988	Operations	Setting up Science and Technology Park in Pune University	Founder Director and Trustee	Pune University
1988	Electronics	Reconditioning and PC Interfacing of Digital Read Outs for Inspection machines	Design Engineer and	Syslab

			Director	
1988	Embedded	Industrial PC for shop floor use on Electric Discharge Sawing machine	System Design Engineer and Director	Syslab
1987	Embedded	Clear Text Display for SIEMENS as OEM	Design Engineer and Project Manager	Syslab
1987	Embedded	Real Time Interface unit for SIEMENS as OEM	Design Engineer and Project Manager	Syslab
1987	Electronics	Control Panel Assemblies for Engine Test Systems	Project Manager	Syslab
1987	Electronics	Electronic Training Kits for Polytechnics	Design Engineer and Project Manager	ASAA
1986	Embedded	PLC Programming Unit for SIEMENS as OEM	Design Engineer and Project Manager	Syslab
1986	Embedded	Industrial Keyboard for SIEMENS as OEM	Design Engineer and Project Manager	Syslab
1986	Operations	Setting up Community School and Educational society	Promoter	Sopanbag
1986	Operations	Setting up Co-operative Industrial Estate for small group	Promoter, Chairman	Pune Electronics Cooperative Society Ltd.
1986	Operations	Setting up Electronics Diploma College	Promoter, President	Nagarjun Abhiyantriki Maha Vidyalaya
1985	IT, Industrial Solution, IP	Co-ordinate Measuring Machine Development	Technical Consultant	Accurate Engineering Pvt Ltd
1985	Education	T raining Courses in Basic Programming	Faculty and Director	IECT
1985	Embedded	Data Logger for Engine Test System	Design Engineer and Project	Syslab

Year	Category	Project	Role	Organization
			Manager	
1984	Embedded	64 Channel Data Logger	Design Engineer and Project Manager	Syslab
1984	Embedded	Microprocessor Controller for Electroplating Plant	Technical Consultant	ASAA
1984	IT, Industrial Solution, IP	Computerized Engine Test System Development.	Technical Consultant	ASAA
1984	Embedded	Diagnostic system for Microprocessor Controls in Aluminum Extrusion Plant at BALCO	Design Engineer and Director	Syslab
1984	Embedded	Base line height controller for rolling mills	Technical Consultant	Systech Pvt.Ltd.
1983	Electronics	Digital Logic Probe for TTL and CMOS	Design Engineer and Project Manager	Syslab
1983	Embedded	Point of Sale Terminal system TRANSACTOR	Design Engineer and Project Manager	Syslab
1983	Embedded/ Tools	EPROM Simulator for Microprocessor Software Development	Design Engineer and Project Manager	Syslab
1983	Embedded	Scrolling Advertisement Display for TV	Design Engineer and Project Manager	Syslab
1982	Education	Training Courses in CNC Programming	Faculty and Director	IECT
1982	Education	Training Workshops for Microprocessor Technology	Faculty and Director	IECT
1982	Electronics	Inductosyn type Digital Read Out for M/c Tools	Design Engineer and Project Manager	Electronica
1982	Embedded	6 Axis CNC Machine Tool Controller for Turret Lathe	Design Engineer and Project Manager	Electronica
1979	Operations	Technical Support for Sales and Service	Project	Electronica

		for Japanese CNC Machines in India	**Manager**	
1979	**Electronics**	**Solid State Control Relay modules for Machine Tools controls.**	**Design Engineer and Project Manager**	**Electronica**
1979	**Electronics**	**Programmable Sequence Controller for Lathe**	**Design Engineer and Project Manager**	**Electronica**
1977	**Electronics**	**Programmable Logic Controller**	**Design Engineer**	**Electronica**
1976	**Electronics**	**CRT Display Terminal**	**Design Engineer**	**Tata Motors**
1975	**Electronics**	**Production Control Data processing machine using TTL MSI Logic**	**Design Engineer**	**Tata Motors**
1974	**Electronics**	**Color Video Camera Studio Equipment link modulator design**	**Student Trainee**	**ELA , Breda Philips Holland**
1973	**Design Tools**	**Evaluation of Computer Simulation Language - ABC**	**Student Trainee**	**Philips Research laboratories , Holland**
1973	**Hardware design**	**Hardware extension in MINSK2 Computer , Hybrid computing instructions**	**Student Project**	**IIT Bombay**
1972	**Electronics**	**Study of Low Power Communication Equipments**	**Student Trainee**	**Bharat Electronics Ltd. Bangalore , India**