

## ASHOK SARAF

Senior Technical Advisor | Director | Educator | Mentor | IIT Mumbai  
Japanese speaking | Engagement Management | Embedded Hardware / Software

### EDUCATION:

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

### EXPERIENCE:

Tata Engineering & Locomotive Co. Ltd. ( now TATA Motors )	1975 - 1978	Design Engineer
Electronica Pvt. Ltd., Pune	1978 - 1982	Product Manager
Ashok Saraf And Associates	1982 - 2006	Technical Consultant
KPIT Technologies Ltd. Japan	2006 - 2008	Engagement Manager
Ashok Saraf And Associates	2008 - 2009	Technical Consultant
Jain Irrigation Systems Ltd	2010	Senior Vice President
Battelle India	2011-2013	Research Leader
Syslab Automation Pvt Ltd	2013 -	Technical Director

### HONORARY ASSIGNMENTS:

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

### EXPERTISE:

<ul style="list-style-type: none"><li>• Electronic Design</li><li>• Microprocessor Systems</li><li>• Computer Software Development Projects</li><li>• VLSI Design &amp; Verification</li><li>• Outsourcing Management</li><li>• Japanese Accounts Management</li></ul>	<ul style="list-style-type: none"><li>• Management of Industrial Units.</li><li>• Project Management.</li><li>• Entrepreneurship Development.</li><li>• Manpower Development and Training.</li><li>• Business Advisor</li><li>• Mentoring for new start ups</li><li>• Distributed Urbanization Models</li></ul>
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Provided Technology consulting to 10+ engineering organizations in India and Japan

### Experience in various Projects:

Year	Area	Project Description	Role	Organization
2020	Japan Engagement	Development of AI model and simulator	Engagement Manager	Crowdiantech Pvt Ltd.
2014-	Technical Advisor	Associated with various companies in Japanese client management, Medical Devices, Industry 4.0, Automotive Electronics	Advisor	various
2013-14	Quality Management Software	Implementation of Blulink Quarta Software 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
2013	Web solution	QR Translator applications	Advisor	Japan Exports / QR Translator
2011-13	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	Nano time Usage for Model Generation for MCU VLSI circuit	Engagement Manager at Renesas Electronics Japan	KPIT Japan
	VLSI	Middleware Tiny Library modules		
	VLSI	Digital Fault Simulation using ZO1X		
2007	VLSI	DVD SoC		
	VLSI	AMS VLSI Design for MCU , Power management , Clock and ADC/DAC		
	VLSI	CAN Gateway Verification		
2006	VLSI	DDR IP design		
	VLSI	IO Design		
	Embedded	TV SoC Ref. design development		
	VLSI	Memory Model		
	Embedded	Application Tool design and testing		
2005	Embedded	DVD Soc Firmware Design	Consultant	S & T Park, Pune University
	Embedded	Electric Vehicle Control System design for Mahindra & Mahindra R&D		
2005	VLSI, Education	ixed Signal VLSI design projects faculty	Faculty	MSRSAS, Bangalore
	Systems	Satellite Image based Survey project	Consultant	Science & Tech Park, Pune University
	Systems	Development of LPG Dispensing system		Vanaz Engineering
	Embedded	Development of Gas Conversion		Vanaz

		Systems for Automotive		Engineering
<b>2004</b>	IT , Web Based Solution	Software Development for CRM system	Technical and Project Consultant	Electronica
<b>2003</b>	IT, Client Server Solution	Software Development for Finance and Leasing Company		Electronica
<b>2001</b>	IT , Desktop Solution , IP	Software Development for Machine Vision based Metrology		QVI Group, USA
	IT, Industrial Solution, IP	Software Development for CNC EDM machines		Electronica
	IT, Industrial Solution, IP	Software Development for CNC Wire cut EDM machines		Electronica
<b>1999</b>	IT, Industrial Solution, IP	Software Development for Tank Farm management System	Technical Consultant	SBEM Pvt Ltd
<b>1997</b>	Embedded	Compact Microprocessor controller for plastic molding machine	System Design Engineer and Director	Syslab
	Embedded	Development of PC based Gear Roll Testing machine		Syslab
	Embedded	Public Display System for PLC for shop floor use.	Technical Director	Syslab
	IT, Industrial Solution, IP	Windows based Engine Test system software.	Technical Consultant	SAJ Test Plant Automation Pvt Ltd.
	IT, Consulting	Computerization at Institute of Higher Tibetan Studies.		CIHTS, Sarnath
	Operations	Setting up holistic educational Institute with electronics and computer technology curriculum as base.	Director and Faculty	Ujjivinee
<b>1996</b>	Embedded	Electronics Attendance Recorder with PC based software.	System Design Engineer and Director	Syslab
	Embedded	Microprocessor controller and data acquisition system for Burning in system for lighting arrestor blocks		Syslab
	Embedded	Microprocessor controller (Mitsubishi equivalent) for Plastic Molding machine		Syslab
	Embedded, DSP	Radar Level Gauge Development (Microwave & DSP)	Technical Consultant	SBEM Pvt Ltd
	IT, Consulting	Project Report for Modern High Court Building	Technical Consultant	Gujarat High Court, Ahmedabad
	ICT, Consulting	Rural Communication System using CB Radio	System Developer and Contractor	District Collectorate Yavatmal
	Embedded	Refrigerated van temperature recorder/printer	System Design Engineer and Director	Syslab
	IT , HR	Starting up Software Export Unit	Consultant	Perisol, Pune

	Consulting			
	ICT, Consulting	Setting up Social project groups based on IT		Prayog Pariwar
1995	VLSI	Setting up and mentoring a Mixed signal VLSI design group for a company in Hyderabad	Technical Consultant and Delivery	Vyamenich Design Hyderabad
	VLSI	Calibration DAC schematic to GDS		
	VLSI	300 MHZ 6 Bit Flash ADC schematic design		
	VLSI	GmC Filter IP design		
	Embedded	Microprocessor Controller for Windsor range of Plastic Molding Machine	Design Engineer and Director Director	Syslab
	Embedded	Automatic Test System for lighting Arrestor blocks		Syslab
	Embedded	PID Controller and instrumentation system for TV Tube plant.		Syslab
	Embedded	Industrial PC for Bearing Production line		Syslab
	Embedded	MMI Display for PLC systems		Syslab
1994	Embedded	Programmable Process Controller for Flow control		Syslab
	Embedded	Microprocessor controller for Sulphur burner in sugar factory		Syslab
	Embedded	Microprocessor controller for tapping machine		Syslab
	Embedded	Programmable Automatic Cable Harness Testers for Automobile		Syslab
1993	Embedded	Digital Gauging Products as OEM for LVDT	Syslab	
	Embedded	Microprocessor Controller for KAUSY make Plastic Molding Machine as retrofit	Syslab	
	Embedded	Shop floor Data Collection and Productivity Monitoring System for M/s. Kirloskar Pneumatics Ltd. (PC Based.)	Syslab	
	Embedded	Metrological Data Collection and Gauge data Management System for M/s. Kirloskar Pneumatics Ltd. (PC Based.)	Syslab	
	Embedded	Calibration and Maintenance of Metrology Instruments	Technical Consultant	Kirloskar Pneumatics Ltd
	Embedded	Reverse Engineering study of PLC system for Assembly Machine	Design Engineer and Director	PHILIPS
	Embedded	PLC Simulation and Programming software on PC		Syslab
	Embedded	Industrial PC for CNC system based on PC		Syslab
Embedded	Automatic Irrigation schedule controller for farms	Syslab		
1992	Embedded	Production monitor for biscuit making machine.	Syslab	
	Embedded	Supply voltage monitor printer.	Syslab	

	Electronics	Electronic Ballast		Syslab
1991	Operations	Setting up Engine Technology Consultancy Unit	Managing Director	SAJ Autotech Pvt Ltd.
	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
	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
	Embedded	Electronic Maintenance for Automobile Manufacture Plant		Mahindra & Mahindra
	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
	Operations	Project report for Center for Electronics Design and Technology		ASAA
	ICT, Consulting	Computerization for Local Newspaper Industry		ASAA
	Operations	Setting up Science and Technology Park in Pune University	Founder Director and Trustee	Pune University
	Electronics	Reconditioning and PC Interfacing of Digital Read Outs for Inspection machines	Design Engineer and Director	Syslab
	Embedded	Industrial PC for shop floor use on Electric Discharge Sawing machine		Syslab
1987	Embedded	Clear Text Display for SIEMENS as OEM	Design Engineer and Project Manager	Syslab
	Embedded	Real Time Interface unit for SIEMENS as OEM		Syslab
	Electronics	Control Panel Assemblies for Engine Test Systems		Syslab
	Electronics	Electronic Training Kits for Polytechnics		ASAA
1986	Embedded	PLC Programming Unit for SIEMENS as OEM		Syslab
	Embedded	Industrial Keyboard for SIEMENS as OEM		Syslab
	Operations	Setting up Community School and Educational society	Promoter	Sopanbag
	Operations	Setting up Co-operative Industrial Estate for small group	Promoter, Chairman	Pune Electronics Cooperative Society Ltd.
	Operations	Setting up Electronics Diploma College	Promoter, President	Nagarjun Abhiyantriki

				College
1985	IT, Industrial Solution, IP	Co-ordinate Measuring Machine Development	Technical Consultant	Accurate Engineering
	Education	Training Courses in Basic Programming	Faculty and Director	ICT
	Embedded	Data Logger for Engine Test System	Design Engineer and Project Manager	Syslab
1984	Embedded	64 Channel Data Logger	Design Engineer and Project Manager	Syslab
	Embedded	Microprocessor Controller for Electroplating Plant	Technical Consultant	ASAA
	IT, Industrial Solution, IP	Computerized Engine Test System Development.		ASAA
	Embedded	Diagnostic system for Microprocessor Controls in Aluminum Extrusion Plant at BALCO	Design Engineer and Director	Syslab
	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
	Embedded	Point of Sale Terminal system TRANSACTOR		Syslab
	Embedded/Tools	EPROM Simulator for Microprocessor Software Development		Syslab
	Embedded	Scrolling Advertisement Display for TV		Syslab
1982	Education	Training Courses in CNC Programming	Faculty and Director	ICT
	Education	Training Workshops for Microprocessor Technology		ICT
	Electronics	Inductosyn type Digital Read Out for M/c Tools	Design Engineer and Project Manager	Electronica
	Embedded	6 Axis CNC Machine Tool Controller for Turret Lathe		Electronica
Operations	Technical Support for Sales and Service for Japanese CNC Machines in India	Electronica		
1979	Electronics	Solid State Control Relay modules for Machine Tools controls.	Design Engineer and Project Manager	Electronica
	Electronics	Programmable Sequence Controller for Lathe		Electronica
	Electronics	Programmable Logic Controller		Electronica
1977	Electronics	Programmable Logic Controller	Design Engineer	Tata Motors
1976	Electronics	CRT Display Terminal		Tata Motors
1975	Electronics	Production Control Data processing machine using TTL MSI Logic		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

<b>1972</b>	Electronics	Study of Low Power Communication Equipment	Student Trainee	Bharat Electronics Ltd.
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