

# Curriculum Vitae

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Current Designation: **Project Lead, Embedded Product Platforms,**  
**D-Link India Ltd.,** R&D Division, Bangalore, India.

<b>Full Name</b>	Sunil Beta Baskar David
<b>Father's Name</b>	Dr. David Baskar Sundararaj
<b>Marital Status</b>	Married.
<b>Born on</b>	20th May 1980 (at Erode, TN, INDIA)
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<b>Nationality</b>	Indian (Passport B3625552) (Exp: 2011-06-31)
<b>Languages</b>	can read, write and speak English, Tamil, Hindi

## Personal Mission Statement

*"To embody the change I seek in the world."*

## Academic Programmes (Core)

Period	Institution	University or Board	Course	Result
1997-2001	Shanmugha College of Engineering, Thanjavur	Bharathidasan University (TN)	B.E. ( <i>Computer Science and Engineering</i> )	76.00%
1996-1997	Don Bosco Matriculation Higher Secondary School, Thanjavur	Higher Secondary Certification Board (TN)	Higher Secondary Certificate ( <i>Physics, Chemistry, Maths, Computer Science</i> )	92.17%
1994-1995	Don Bosco Matriculation Higher Secondary School, Thanjavur	Matriculation (TN)	Matriculate	87.00%

## Academic Programmes (Additional)

Period	Institution	Course	Result
2000	Personality Development Centre, Mangalore	Feel Employable	Cert.
1996-1998 1994-1996	NIIT (National Institute of Information Technology, India.)	Honorary Diploma in Software Management (HDSM)	80.00%
1992-1994	Dakshin Bharat Hindi Prachar Sabha	Praveshika	65.00%

## Academic Projects

Year	Project
2000	"Kollektive Linux Distribution" codenamed Mahout as Final Year Project sponsored by Morelinux.com (later renamed Codito)
2000	"Infinity" - Large Integer Processing Library for Research on Diophantine equations for the Mathematics Department at "Shanmugha College of Engineering" (later renamed SASTRA deemed University)
1999	"Container Allocation System" for CONCOR, Thondiarpeta (Chennai)
1996	"Machine Allocation and Library Management system" for NIIT, Thanjavur

## Academic Achievements

Year	Achievement
2001	First in <b>Artificial Intelligence</b> (8th Semester, B.E.)
2000	<u>Second</u> in <b>System Software Engineering</b> (7th Semester, B.E.)
1998	<u>First</u> in <b>Programming Languages I</b> (3rd Semester, B.E.)
1998	<u>First</u> in <b>Basic Engineering I</b> ( <i>Civil, Mechanical Engineering</i> - 1st Year, B.E.)
1997	<u>First</u> in <b>HSC</b> (School level)

## Academic Awards

Year	Award
2001	<b>Shri. R Sethuraman Award</b> for <i>Academic Excellence in Computer Science &amp; Engineering.</i>
2001	<b>Shri. H Mahadeva Iyer Award</b> for <i>Academic Performance, Proven language skills &amp; wide Reading habits and Performance in extra-curricular activities.</i>

## Academic Papers

Year	Paper
2000	"Hollow Magic Cubes" on magic cubes and hyper-dimensional cubic surfaces and scalar mathematical usage. (published with Sivappirakasam,M)
2000	"Hypothetical Quantum Computing Interface using Agents" on interacting with Quantum Computing and Conventional Electronic Computing Platforms. (published with Vijayanand R)
1999	"DNA Computing for NP Problems - Extended Approaches" on extension of NP approaches with DNA Computing. (published with Irfan Shah and Sai Narain)
1999	"Behavioural Approach for Network Security" on using behavioural usage patterns to increase network security. (published with Niranjana,B)
1998	"Internet Security with Firewalls", a study paper on Firewalls, External Intrusion and Insider attacks. (published with Sai Narain and Irfan Shah)

## Academic Prizes for Paper Presentations

Year	Prize or Appreciation
2001	Paper on "Quantum Computing Interface" recognised by Imperial College UK
2001	<i>First Prize</i> for paper on "Hollow Magic Cubes" at Mathematical Symposium held at Shri Venkateshwara College of Engineering.
2000	<i>First Prize</i> for paper on "Quantum Computing Interface" at Pondicherry Engineering College (Technical Festival - Recursion 2000)
1999	<i>Second Prize</i> for paper on "Firewalls" at PSG College of Technology

## Academic Leadership Roles

Year	Leadership Role or Responsibility
2001	<b>System Administrator</b> for "Advanced Research Projects Laboratory" of the Department of Computer science at "Shanmugha College of Engineering."
1998 - 2001	<b>Class Representative</b> for "Computer Science" Batch of 1997-2001 Section A at "Shanmugha College of Engineering."
2000 - 2001	<b>Webmaster</b> for the official website of "Shanmugha College of Engineering." currently <a href="http://www.sastra.edu/">http://www.sastra.edu/</a>
1997 - 1998	<b>Chairman</b> of the NIIT Thanjavur Technical club, named QUEST.
1996 - 1997	<b>School Pupil Leader</b> of Don Bosco Matriculation Higher Secondary School.
1992 - 1995	<b>President</b> of "The Computer Club" of Don Bosco Matriculation Higher Secondary School.

## Competitions and Prizes

Year	Prize	Competition
2001	First Prize	Prof. K G S English Essay Competition
2001	First Prize	Prof. K G S Creative Writing Competition
2001	First Prize	Prof. T R R Science Essay Competition
2001	First Prize	Prof. K G S English Oratory Competition
2001	First Prize	English Oratory Competition (Shanmugha College of Engineering)
2001	First Prize	"ET in the Classroom" Quiz (Trichy Zone) partnered with Vijayanand R
2000	Second Prize	"Software Marketing" at "Pondichery Engineering College" Technical Festival - ICON 2000 with Irfan Shah, Vijay Anand R and Sai Narain K
2000	First Prize	"Debating" at "Anna University" Arts Symposium held by the Department of English
1999	First Prize	"Marketing" at "Pondicherry University" Technical Festival - Recursion '99 with Irfan Shah
1998	Second Prize	Prof. T R R Science Essay Competition
1998	First Prize	Prof. K G S English Oratory Competition (Shanmugha College of Engineering)

## Work Experience

Period	Role	Company
2006-(Present)	Project Lead, Embedded Product Platforms	<b>D-Link India Ltd., R&amp;D Division</b> , Bangalore <a href="http://www.dlink.co.in/">http://www.dlink.co.in/</a>
2005-2006	Independent Consultant for Startups	Consulted for "Afford Computing", "Codito", "Linux Standards Base", "Aum Infotek", "Parisutham Institute of Technology and Science"
2003-2005	Programme Manager: Embedded Services	<b>Codito Technologies Pvt. Ltd.</b> , Pune, India <a href="http://www.codito.com/">http://www.codito.com/</a>
2003 (Jan)	Product Manager	<b>Innvo Systems Pte. Ltd.</b> , Singapore <a href="http://www.innvo.com/">http://www.innvo.com/</a>
2002-2003	Linux Kernel Developer	<b>Innvo Systems Pte. Ltd.</b> , Singapore <a href="http://www.innvo.com/">http://www.innvo.com/</a>
2001-2002	Embedded System Software Developer	<b>Codito Technologies Pvt. Ltd.</b> , Pune, Maharashtra, India <a href="http://www.codito.com/">http://www.codito.com/</a>
1998-2001	Partner and Co-Founder	<b>Reboot Systems</b> , Thanjavur (PC/Clone Troubleshooting company during Undergraduation.)

## Roadshows

Year	Roadshow
2008 (Nov)	Freescale Technology Forum (Bangalore)
2008 (Aug)	D-Link India Ltd. VOIP Telephony Product Launch for GVC-3000 and GLV-540
2007 (Nov)	Freescale Technology Forum (Bangalore)
2006 (Dec)	Freescale Technology Forum (Bangalore)
2006 (Nov)	Intel Developer Forum (Bangalore)
2004 (Feb)	Linux Asia (New Delhi)
2004 (Dec)	Linux Bangalore
2003 (Dec)	Linux Bangalore
2003 (Dec)	TI Developers Conference (DevCon)
2002 (Nov)	Advantech Partners Meet (to demonstrate Realtime Linux capabilities on Advantech solutions with Innvo.)
2002 (Feb)	Redhat Partner's Meet (Pune) representing Codito's partnership offering.
2001 (Dec)	Redhat roadshow, Bangalore (to present the Codito-Redhat partnership for embedded professional services with now CEO, Patanjali)

## Lectures at Work

Year	Topic
2000	Linux boot-up Process (related to enhancements from the Linux distribution project) delivered at Codito.
2001	RTLinux porting to the ARM 32-bit architecture delivered at Codito.
2001	"Scaling Linux to the Embedded World" delivered at Redhat Roadshow with Patanjali (now CEO of Codito.)
2004	Better Coding Practices for simplifying Project Management delivered at Codito.
2004	"An Introduction to Free Software and Opensource" delivered at SASTRA deemed university.
2004	"Compiling the Linux Kernel" delivered at SASTRA deemed university.
2006	An Insider's look at the Linux 2.6 Kernel (18 Sessions)
2007	CMOS Sensor Tuning for better Digital Video Imaging (2 sessions)

## Brief Description of Roles at Work

As a Project Leader, here is a summary of my work roles:

- Assistance to Application Vertical Teams while Conceiving Products.
- Design of Product Platforms to satisfy Application Vertical Teams.
- Interaction and Review of Hardware Design during Platform Development.
- Architecture of BSP based on Open Source Components to meet Product Requirements.
- Project Scheduling, Budgeting and Resource estimation.
- Delegation of Modules of the BSP.
- Early Board Bring-up of Prototype (Alpha) Hardware.
- Coding of Critical BSP Modules which have a direct impact on Primary Product Function.
- Application Integration on Embedded Product Platform with Application Vertical Teams.
- Review and (if necessitated) Rewrite of BSP Modules for better Application performance.
- Recruitment of Team Members based on Project and Product Requirements.
- Complete Hardware, BSP and Application Integration for "Beta" Field Product.
- Project Performance Review, Appraisal of Team and Teammates for 360 degree feedback.
- Product Training for Sales/Marketing Personnel during Training workshops.
- Manufacturing and Production Team interaction for "DFM" final Product.
- Addressing Field Trial Issues for new Products and Customer issues for older and existing Product Platforms.

## Special Contributions

- First ever Port of OpenRTLinux or RTLinuxFree Hard Realtime extension to an ARM Platform.
- MSM7731-01 Echo Canceler Tuning for In-Car Telematics Product.
- High Speed Boot-up Solution for In-Car Telematics Product to run application in less than 5 seconds.
- Video Quality Tuning for GVC-3000 and GVC-3000C class videophones.
- Deployment of a Linux kernel as a boot loader for high speed boot-up and provide OTA upgrade options for Video and VOIP Platforms at D-Link India Ltd.
- Buffer Management for Lip Synchronisation and stable Echo Cancellation for VOIP Product Platforms at D-Link India Ltd.
- Concept for WiFi (802.11 a/b/g) based Battery powered VOIP and Video Communication Platform for D-Link India Ltd.
- Assisted in Conceiving and writing the lsb-install tool for standardising object installation on Linux platforms for Package managers.

Year	Role	Project
2008 (Aug-...)	Platform Designer	Modular SMB/SME Router Platform architecture with hotplug architecture
2008 (Aug-...)	Platform Designer	Extended Video Telephony Platform Architecture (with WiFi, Battery Backup, Touch Screen.)
2008 (Jan-Mar)	Recruitment Manager	Recruitment of a <i>Technical Lead</i> for the Embedded Product Platform Team
2008 (Jan-Aug)	Project Leader	Linux Port to I.MX27.TO2.1 based Video IP Telephony Platform and Product GVC-3000, GVC-3000C
2007 (Jun-Dec)	Project Leader	Linux Port to TI TNETV1050 ("Titan") based VOIP Telephony Platform and Product GLV-540, GLV-560
2007 (Jun-Dec)	Project Leader	Linux Port to I.MX27.TO2 based extended field Video IP Telephony Platform
2007 (Jan-May)	Project Leader	Linux Port to I.MX27.TO1 based field Video IP Telephony Platform
2006 (Jun-Dec)	Project Leader	Linux Port to I.MX21 based prototype Video IP Telephony Platform
2005	Consultant, Architect	Linux Port to Custom board using Geode derived SoC
2005	Driver Developer	XFree86 4.5 Video driver for custom platform.
2005	LSB Consultant	LSB Workgroup, LSB Desktop Workgroup, LSBInstall tool extended engineering and regularisation.
2004-2005	Process Manager	Internal Processes for QA and Work Enhancement.
2004	Project Leader	Linux 2.6 port to IBM 750GX dual core extended embedded off-loading platform over a PCI-X interface.
2004	Project Leader	uClinux 2.4 port to ARM7TDMI based processor controlling a Image Capture Device.
2004	Project Leader	CF/VGA <i>Colorgraphics</i> card driver for the Simputer platform.
2004	Project Manager	uClinux 2.4.20 port to LX4380 based SoC.
2004-2005	Company Liaison	TI, India (GNU Multicore Processor Debugger) and Codito.
2004	Project Manager	GCC ports to Custom core from ARC International
2003-2005	Company Liaison	FSMLabs (Projects involving RTLinuxPro engineering enhancements, Deployment Assistance) and Codito.
2003-2005	Recruitment Manager	Recruitment for Embedded System Software Services team.
2003	Project Manager and Developer	Embedded Linux Port (kernel 2.4.19-rmk6-omap1) and Qt-Embedded port to TI OMAP Innovator
2003	Offshore Team Manager	Offshore Team Setup, Management, Linux IPSEC based VPN Tunnel setup.
2002-2003	Kernel Driver Developer	SMC91C96 Ethernet Driver for PXA250 based custom board targeted at an in-car telematics device.
2002-2003	Kernel Driver Developer	Oki MSM7731 Echo Cancellation chip driver for PXA250 based custom board
2002	Kernel Developer	RTLinuxFree/OpenRTLinux port for PCM SoCER-130 board from Advantech.
2002	Kernel Developer	Epson S1D13806 Console Framebuffer Driver on Linux (kernel 2.4.17) for StrongARM based SoC for customised board.
2002	Embedded Systems Developer	Custom Boot loader enhancements for InnvoBoot (proprietary boot-loader from Innvo)
2002	Company Liaison	Redhat India and Codito Technologies for Linux Professional Services.
2002	Developer	Lxr enhancements for indexing alternate source trees
2001	Developer	Perl Based Profiling framework for custom OS kernel.
2001	Kernel Developer	OpenRTLinux 3.0 Port for CDB89712 board.
2001	Project Guide	Shared Memory for Clusters (Network RAM) extensions to the Linux Kernel.

## Work Experience (Chronology)

NB: All Project Leadership roles involved Architecture, Design and Varied levels of Coding.

## Skills (Core)

Skill	Level of Expertise
Linux Kernel Development (drivers, enhancements, architecture ports)	Very Good ( <i>have worked on linux 2.2, linux 2.4, linux 2.6, uClinux 2.6 kernels, use custom git tree on home PC</i> )
Linux Application Development based on Frameworks (Gtk, Qt, DirectFB, TinyX)	Average
Debugging and Troubleshooting capabilities	Very Good ( <i>Rated as a Disaster Manager during the last Appraisal.</i> )
Embedded System Software Development on Alternate Platforms	Good
Embedded Application Software Development on Alternate Platforms	Good
Source Code Comprehension	Good
Project Management and Team Leadership	Very Good ( <i>People management skills were recognized as special.</i> )
Client Liaison Management	Good
Recruitment and Interviews (Technical)	Good

(Ratings are from appraisal and feedback at earlier work environments.)

## Skills (Supportive)

Skill	Description	Comfort Level
Programming Languages	C (Using gcc)	Very Good
Debugging Environment	GNU Debugger (gdb)	Very Good
Programming Languages	C++	Good
Instruction Set Architectures	ARMv5te, MIPS324KC, i386/ix86, e300 (PowerPC)	Good
Development Environment	EMACS	Very Good
Scripting Languages	Perl, bash2	Very Good
Scripting Languages	SQL	Average
Scripting Languages	PHP, awk, sed	Average
OS Platform (Dev.)	Linux Distros (Debian, SuSE, RH, Ubuntu, LFS)	Very Good
OS Platform (Dev.)	FreeBSD, Microsoft Windows 2000, XP	Average
Desktop Environment	KDE	Very Good

## Hobbies and Interests

History (Roman, Greco-Roman, Egyptian Middle Dynasties), Archaeology (Monuments)  
 Anthropology, Alternate History, Theology, Ontology  
 Science Fiction (Michael Crichton, Steven Baxter, Philip K Dick, Isaac Asimov)  
 Writing Essays and Articles (on technical, socio-technical and other relevant topics)  
 Writing Fiction (fan fiction, or short stories with a science fiction theme.)  
 Listening to Western Classical Music (Tchaikovsky, Brahms, Strauss, Beethoven)  
 Chess (Playing online over chess portals, Playing chess programs.)  
 Movies (Science Fiction, Art, Classical: 1940-1960 Genre)  
 Pencil Sketching (Portraits, Landscapes - reflecting sunilbetabaskar.com/me.html Themes and Realism)

You may Read [www.sunilbetabaskar.com/me.html](http://www.sunilbetabaskar.com/me.html) for more on my interests.

## Preferred Work Environments

I am interested in working with product teams who are market focused. I like to work in a company aiming to create a end-to-end solution as opposed to targeting only one part of a complete customer chain.

I like to work in flexible work environments with minimal dress code regulations restricted to formal occasions. I like working in teams (with similar interests) speaking languages I am unfamiliar with; as that helps me gel into the team and learn the language together.

I enjoy working with a high-energy team. I prefer to stay close to the market and the customer with strong involvement in communication with clients to understand the end-solution better.

I like a role that requires both leadership and technical skills.

I advocate open communication in day-to-day activity and work. I enjoy encouragement to improvise and incubate ideas that can potentially increase the market competitiveness of the team and the company as a whole.

*I enjoy my work and carry on the same as a hobby extending my skills.*

Thankyou for reading through this rather lengthy document. I've read resumés and CVs myself and I know its quite a tough job to sift through them.

**Sunil Beta Baskar**

*(Beta pronounced as in the Greek Alphabet.)*