**SREEJITH N SANTHANU**

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**Coventry, (U.K).**

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| **PROFESSIONAL SUMMARY** | | | | |
| * **18 Years of Software Product Development Experience using C/C++ on Embedded / PC / Linux / RTOS/ windows etc.** * **Working as Software Engineering consultant & Lead engineer DSL Broadband Extender solutions. [ 2+ Years]** * **Software Systems Designer & Architect for network Infrastructure/Customer Equipment for Genesis. [ 3.5 Years]** * **Worked as Senior Embedded Software Engineer for an IoT based Product for Electron Technologies. [ 1.5 Years]** * **Worked as Software Designer/Developer for Embedded Linux based control system product for Pulsar PM. [ 1.5 Years]** * **Worked as Senior Technical Lead Software for Kyocera Wireless Corp. on Mobile Handset and infrastructure. [ 6.5 Years]** * **Worked as Senior Developer for Atinav Inc. for a VoIP based Communication product Client & Server. [ 3 Years]** | | | | |
| Experience on **Embedded** & **Non-Embedded** platforms using **C/C++, Node.js, Embedded Linux, WinCE, RTOS**, **Linux** and **(Win32) Windows.** | | | | |
| * Experience on **Software Development Life-Cycle** & **Process**, **complex software systems** and **Cross platform development**. * Development process & Methodologies like **Agile/Scrum**, **waterfall** & **RAD** & **SCM & Release Management/Issue tracking.** * Strong **Programming** and **Debugging** Skills in **C** and **C++** using platforms Like **ARM** **and X86** and **Linux/RTOS & Windows OS** support**.** * **Telecom Industry** like **Mobile Handsets** and **Infrastructure Products**, **Broadband Access Nodes**, **Base Stations**, **Gateways, IoT** etc. * Excellent Design and Architecture Knowledge on **Firmware**, **applications**, **Servers**, **Protocols**, **Device** **Drivers**, & **GUI** etc. * Development experience on **System programming**, **Protocol Stacks**, **Network Programming** (**TCP/IP** & **BSD Sockets**), **Device Drivers**, **Scalable Servers**, **Applications** and **Multi-Threading**, **Inter Process Communication** etc. * Experience in **industrial products** like **Control Systems** and protocols like **ModBus**, **telemetry** etc. | | | | |
| **LOCATION** | **RESIDENT VISA STATUS** | | **SALARY EXPECTATION** | **AVAILABILITY** |
| **Ready to Relocate - UK** | **UK Permanent Resident VISA (ILR)** | | **Industry Standard** | **4 Weeks** |
| **EDUCATION & QUALIFICATIONS** | | | | |
| * **Bachelor’s Degree**: 1996-2000 **B-Tech** (Hon's) **Bachelors of Technology** in **Computer Engineering**, with **1st Class** from Govt. Model Engineering College Cochin. Under Cochin University of Science and Technology (CUSAT) with (70%) Marks. * **Higher Secondary:**1994 - 1996 **Pre-degree** from Calicut University, Kerala with an aggregate of 78% Marks with Mathematics, Physics & Chemistry as the main subjects. * **Secondary:** 1994 **SSLC** with Distinction with 85% Marks- Kerala State Syllabus. | | | | |
| **CAREER INFORMATION** | | | | |
| * **Genesis Technical Systems**, **Since November 2016 – Till date** U.K, ([www.genesistechsys.com](http://www.genesistechsys.com)). **[2+ Years]**   ***Designation****:* ***Consultant Software 1 year & Lead Software Engineer, 1.5+ years.***   * **Elektron Technology**, - **Since February 2015 – November 2016** U.K, (www.elektron-technology.com). **[1.5+ Years]**   ***Designation****:* ***Senior Embedded Software Engineer.***   * **Genesis Technical Systems**, **Since October 2011 – February 2015 date** U.K, ([www.genesistechsys.com](http://www.genesistechsys.com)). **[3.5 Years]**   ***Designation****:* ***Software Design Developer/Lead.***   * **Pulsar PM** - **Since April 2010 – September 2011** United Kingdom, ([www.pulsar-pm.com](http://www.pulsar-pm.com/)). **[1.5 Years]**   ***Designation****:* ***R&D Software Engineer - Product Consultant***   * **Kyocera Wireless Corp**, **Since Sept 2003 to Jan 2010** Bangalore-India. ([www.kyocera-wireless.com](http://www.kyocera-wireless.com/)). **[6.5 Years]**   ***Designation****:* ***Senior, Technical Lead*** - R&D Software Engineering - Kyocera Wireless India Pvt Ltd   * **Atinav Inc**, **Since Aug 2000 to Sept 2003** Cochin - India, ([www.atinav.com](http://www.atinav.com/)**)** **[3.0 Years]**   ***Designation****:* Senior, Information Technology Officer (Software Engineering) - Avenir Computer services exports Pvt. Ltd | | | | |
| **COMPUTER PROFICIENCY** | | | | |
| ***Languages*** | | **C, C++, UML, QT SDK, VC++, OOAD, Node.js, Shell Scripting.**  **Familiar with:** Assembly language (8086), Brew, Android & Java, C# .Net. | | |
| ***Operating System*** | | **Linux, Embedded Linux, Windows NT/2000/ XP, REX (RTOS), Windows CE, UNIX** | | |
| ***Environments/Tools*** | | **GNU Tool chain, GCC, GDB, Visual Studio C++, JTAG, TRACE32, ARM Tool Chain, ADS 1.2, Embedded VC++, Vim, QT, Android and Eclipse, UML, Brew SDK, Perforce, SVN, Clear Case, CVS, GIT, Visual Source Safe, JIRA. development Dev-Tools** like **GNU Tools, GCC, GDB & code coverage, memory & process analyzers.** | | |
| **PROFICIENT AND FAMILIAR AREAS** | | | | |
| * **Device Drivers** like **I2C, UART, MMIO, GPIO, SPI, SDIO, USB, RS232/485** and **NDIS** etc**.** * **Networking & Protocols TCP/IP, UDP, PPP, PPPoE, Ethernet (802.3), BSD Sockets, Telnet**, **FTP**, **HTTP, GRE**, **MPLS** etc. * **Telecom & Access Technologies CDMA, WiFi-802.11, WiMAX-802.16, Bluetooth, BLE, GSM, DSL**/**VDSL2**/**ADSL2**, **etc.** * **Application Frameworks** like **QT, Node.js, Open-GL, SDL, Brew, MFC, Android** and **Eclipse-Java, OSAL, C# .Net.** * **Network Security**, **WPA-Supplicant, Firewalls, SSL, SSH**, **IPSec &** **HTTP** **Proxy, NAT, IP Tables**. * **VoIP Technology** like **SIP, RTP/RTCP, H.323, IMS, IGMP, IPTV, T.120 and Audio** & **Video Codec** etc**.** * **Industrial Protocols** like **Modbus, DNP3, SCADA** and **Telemetry** etc. | | | | |

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| **WORK SUMMARY** |

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| **Since 2016 November – Till date - Genesis: (2+ Years)** | |
| **Since 2011 October - 2015 February - Genesis: (3.5 Years)** | |
| Development of high-speed Broadband network access equipment using VDSL2 technology, Central Office equipment and customer premise equipment. Work Involves Broadband Access Gateway to using existing Central office infrastructure. The controller platform based is ARM9/Cortex/Xilinx Zynq based board with Embedded Linux; with main peripherals Xilinx FPGA and Modems interfaced over Processor host bus EBI. My responsibility was to Bring-up the board with Boot Loader & Linux as operating system with All peripherals includes Serial ports, Ethernet, VDSL2 Modems, FPGA, I2C and SPI devices. Build the Linux Libraries and Root File system. Integrate 3rd party Network Management Engine (SNMP/CLI & Web-UI/TR69). Design and Architect the Network Protocols and Controller application which drives the FPGA & Modems and interface with OAM engine. Responsibilities Include defining Features, document requirements, designing Lead the SW development activities and delivery, release management, interface with test team, issues & defect tracking. | |
| **Language & OS** | **C, Embedded Linux, Linux Server, Windows, U-Boot.** |
| **HW and Protocols** | **ARM9 (Atmel SAM9G20), Intel Xeon x86-64, Host Bus Memory Mapped IO with FPGA Xilinx SPARTAN, I2C (Temperature Sensor/GIPO extender/PWM/EEPROM), SPI (SLIC), RS-232 (UART), USB, Ethernet, TCP/IP, Network interface card, VDSL2 Modem etc.** |
| **Environment & Tools** | **GCC, GDB, ARM Tool Chain Embedded Linux, Ubunt**u-LTS/Fedora **Linux, Eclipse, SVN.** |
| **Projects** | |
| * + **Advanced Superfast Broadband Access node Central Office (CO) & Remote Access (CPE) Equipment using VDSL2/ADS2 technology**   + **Advanced Superfast Broadband Home Gateway (CPE) Equipment and using VDSL2 technology and new network topology.**   + **Advanced Superfast Broadband Exchange Gateway (CO) Equipment enables backhaul and management for superfast Broadband Access.** | |

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| **Since 2015 February – November 2016- Elektron: (1.8 Years)** | |
| Working for the embedded Linux based Hub for automatic monitoring system. My Responsibilities are Board Bring up, design and maintain the Linux based platform infrastructure for the hub device. Hub is a device which retrieves sensor measurements over Zigbee and BLE and process/deliver information to the Cloud over Wi-Fi or Ethernet. | |
| **Language & OS** | **C, Embedded Linux, Linux Server, Windows, and Node.js.** |
| **HW and Protocols** | **TI (Sitara AM335x), WL1837MOD Wi-Link Wi-Fi, Bluetooth & BLE, I2C (temperature sensor / GIPO extender / PWM / EEPROM), RS 232 (UART), USB, Ethernet, TCP/IP, Network interface card, Silicon Labs EM35x Zigbee, NFC etc.** |
| **Environment & Tools** | **GCC, GDB, ARM Tool Chain Embedded Linux, Ubuntu-14.04 Linux, Eclipse, GIT.** |
| **Projects** | |
| * + **Automated Sensor network Monitoring systems** | |

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| **Since 2010 April - 2011 September - Pulsar PM: (1.5 Years)** | |
| Develop a new multifunctional control System, which on ARM Cortex based board with Embedded Linux; with touch screen and intuitive HMI. My responsibility was to Bring-up the board with Boot Loader & Linux as operating system with All peripherals includes Serial ports, USB, SD, Ethernet , 5.7 inches LCD, Touch screen Controller. Build the Libraries and Root File system & QT Libraries. Design and Architect the Control System Application and GUI/HMI using Linux system programming and QT SDK. | |
| **Language & OS** | **C, C++, Embedded Linux, QT (SDK), Windows, U-Boot, RedBoot.** |
| **HW and Protocols** | **ARM9, Intel x86, Cortex-A8 based Evaluation Boards (iMX-51,OMAP L-138) , I2C Touch Screen, 5.7 Inch LCD , RS 232/485, USB, SD Card, Modbus, Telemetry, Ethernet, TCP/IP etc.** |
| **Environment & Tools** | **GCC, GDB, Embedded Linux, ubuntu-10.04 Linux, Eclipse, SVN, QT** |
| **Projects** | |
| * + **Multifunctional Control System based on Linux** | |

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| **Since 2003 - 2010 - Kyocera Wireless: (6.5 Years)** | |
| I have been working with Kyocera Wireless, R&D Team, a US based Mobile phone company, works for Most of the work I have done is with Qualcomm (Mobile Station Modem) MSM Chipsets mobile station Modem Chip-sets; Which is ARM 9 based / Rex / Native UI/ Brew & Android. I am listing some of the development environment/tools and projects undertaken activities, I have been involving. During 2009 period involved in activities of Infrastructure project Which is an ASN GW prototype. | |
| **Language & OS** | **C, C++, REX (RTOS), QUALCOMM AMSS, VC++, UML, Embedded Linux, Windows, Eclipse Java, Brew.** |
| **HW and Protocols** | **ARM7/ARM9, Cortex-A8 (OMAP 3530) , UART, USB, NDIS, SDIO, Wi-Fi 802.11, Wi-MAX 802.16e, Bluetooth , CDMA, GSM& GPRS, PPP, PPPoE , TCP/IP-UDP, Ethernet 802.3, SIP,RTP/RTCP, IMS , IPTV, C# .Net.** |
| **Environment & Tools** | **ADS 1.2, JTAG, TRACE-32, GCC, GDB, Rhapsody, Enterprise Architect, Embedded Linux, Windows XP, Fedora Linux, Eclipse, perforce, Clear Case, CVS.** |
| **Projects** | |
| ***Mobile Handset Projects Based on Qualcomm MSM & AMSS***   * **Multi Radio Technology Phone & VoIP - (IEEE-802.20) iBurst & CDMA-1X-(QCT-60x5) / GSM 2.5G.** * **Kyocera WiFi -CDMA Dual Mode Phone.** * **Bluetooth Integration on QCT, RUIM (Removable SIM Card) Integration, IMS architecture for Kyocera High end Phones.** * **Real Time Screen Updates for Kyocera MSM 6100 (RETINA).** * **Mobile phone Security & Antifraud Features, PHS WSIM Jacket Phone – Willcom PHS-WSIM Modem on Kyocera Phone** * **Configuration Tool & Diagnostic Monitor for Wi-MAX Card.**   ***Infrastructure Structure Projects***   * **WiMAX – ASN-GW (IEEE 802.16e) - (Access Service Network Gateway & Base Station N/W Interface)**   ***R&D Activities***   * **Adaptive Multi -Rate algorithm for Video Streaming over Wireless network EVDO/CDMA for IPTV** * **GSM-3G Femto-Cell & Voice Gateway with iBurst/WiMAX wireless Broadband as backhaul** * **OS porting Toppers OS on Hitachi-SH - R77 for Kyocera platform** | |

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| **Since 2000- 2003: Atinav Inc: (3 Years)** | |
| I have been working for Atinav Inc, in which I was involving a communication collaboration tool project; My role was handling the VoIP part of it. I involved in design, architecture and coding for the project. Including Client VoIP and the server side of the projects like Conference Server and relay server. The solution was a platform independent solution; the solution is implemented across the platforms like windows/ Linux / embedded Linux & WinCE. | |
| **Language & OS** | **C, C++, UML, Windows-XP/2000, Embedded Linux, WinCE.** |
| **HW and Protocols** | **Intel X86, Intel X-Scale SA1100, TCP/IP, UDP, BSD Sockets, I/O Completion Port, RTP, RTCP, SIP, H 323, T120, Audio Codecs GSM 6.10, G-711/729/723 etc.** |
| **Environment & Tools** | **GCC, GDB, VC++ 6.0, MFC, Embedded VC++ 4.0, Visual Studio .Net, Rational Rose, Red Hat Linux, Embedded Linux Tool Chain (LART), Visual Source Safe.** |
| **Projects** | |
| * + **AveComm VoIP Solution**   + **Embedded Server less audio conference inside a wireless LAN [VoIP]**   + **Telephony Gateway [Conference server , Centralized Mixing Server & relay server]** | |