SHYAM SHANKAR
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ACADEMIC QUALIFICATIONS

MTech in VLSI & Embedded Systems	Adi Shankara Institute of Engineering & Technology (MG University) (2013-2015)	7.54 CGPA
BTech in Electronics & Communication	Govt. Model Engineering College, Cochin (CUSAT) (2009-2013)	71.06%
Class XII	Bhavan's Vidya Mandir, Elamakkara (CBSE) (2009)	90 %
Class X	Bhavan's Vidya Mandir, Elamakkara (CBSE) (2007)	90.2 %

TECHNICAL SKILLS

Software & Simulation skills	Code Composer Studio, ModelSim, Xilinx SDK, Tortoise GIT
Programming skills & Protocols	C, C++, Embedded C, I2C, SPI, UART, BLE 5.0, PWM, Multi-thread programming, TI RTOS, IPCs
Hardware familiarity	TI Tiva C Series, TI CC26x2, Zynq ZC702, AMC7820, RTC MCP79410, ST7735S LCD, Eink E-paper Display
Documentation skills	MS Office

PROFESSIONAL EXPERIENCE

- September 2018 – August 2020 : **Software Engineer at Wisilica India Pvt Ltd**

  Location and Guidance system using TI BLE 5.0 : Development of a network of devices that tracks the location and provides directions to the users to reach their destination. The network consists of Transmitter, Repeaters, Beacons and Smart Tag devices. The Smart Tag device will receive the beacons from the Beacon devices and then advertise its location at regular intervals. The Transmitter will receive this location information and provide suitable directions based on the current location and the intended destination. The Repeater devices will relay the advertisements between the Transmitter and the Smart Tags. The directions and other required information will be shown on the Eink Epaper display of the Smart Tag.

  System for Transmitting and Receiving Messages via BLE : Development of a connected network of devices which transmit and receive messages in the form of Bluetooth Low Energy advertisements using TI BLE 5.0. The entire system consists of a Base Module, Repeaters and Smartbands. The Base Module has two sections – a Wifi Section & a BLE section. The Wifi section receives the messages from a Mobile Application via Wifi. It then transmits the messages via SPI to the BLE section which then advertises the received message. These messages are then either received directly at the Smartband or will be relayed on

if received at the Repeater. The message is then displayed on the LCD display of the Smartband. The Smartband then sends a response, if any, via BLE over to the Base Module.

- April 2018 – September 2018 : **Software Engineer** at **Robert Bosch Engineering & Business Solutions Pvt Ltd (RBEI)**

  Worked in projects from multiple customers with the following responsibilities:
  - On-time Series Release of Project Software involving tool execution, testing and delivery**.**
  - Integration of Software variants.
  - Familiar with Task Management tool JIRA**.**

- June 2016 – April 2018 : **Software Engineer** at **SFO Technologies Pvt Ltd (A NeST Group Company)**

  Development of an Optical Fiber Amplifier : Development of an Erbium Doped Fiber Amplifier that amplifies the input optical signal and is capable of operating in different modes and variable configurations. The stimulated emission in the gain medium is responsible for the amplification of the incoming optical signal. The stimulated emission is brought about by subjecting the gain medium to a pump laser of suitable wavelength and sufficient power.

- **MTech Thesis : Hybrid Methodology for System Level Power Estimation :** An efficient method for system level power estimation. The System Level Power estimation enables to identify the power consumption of the developed software without having to execute the software on the actual hardware. The method was applied on the ARM Cortex A9 processor present in the ZYNQ ZC702 board. Involves creating a power consumption model based on regression analysis and a virtual model of the ARM Cortex A9.