Bharath Vikram Bhatt

*Curriculum Vitae*

Advancement of technology is always linked to space science. It pushes boundaries of known physical limits thus leading to innovation for the betterment of life. This job opportunity helps me master my technical skill, challenge my limits of imagination, and yet enjoy. my job.

Objective

Personal Information

**Dob** : 26-December-1993

**Nationality** : INDIAN

**ADDRESS :**

**1.Stock,**

**Grumbrechtstrasse 28,**

**21075 Hamburg**

bharathvikrambhatt@gmail.com

+49-15774891647

Language skills:

German : A2

English : Fluent

Hindi : Fluent

Kannada : Fluent

Konkani : Fluent

Educational Qualification

since 10/2018

08/11-05/15

06/09-03/11

06/08-03/09

since

11/2018

(Work student)

07/2015

to

08/2018

(Full Time)

**Master of Science in Information and Communication Systems (M.Sc)**

**University :** Hamburg University of Technology (TUHH)

Semester 6: 1,9

**Bachelors of Engineering in Electronics and Communication Engineering (B.E)**

**University :** Visvesvaraya Technological University, Belagavi.

**Institute** : Bangalore Institute of Technology, Bangalore

**Aggregate** : 81.83%

**Pre-University**

* Sri Bhuvanendra PU College,Karkala, Udupi
* Department of Pre-University Board Karnataka, Bangalore.
* 93.83%

**Secondary Education**

* PoornaPrajna High School,Sangameshwarapet, Chickmagaluru (India)
* Karnataka Secondary Education Examination Board
* 95.84%

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Antenna Coordinator

Vessel Tracker.com

**Role**: Embedded C development on Linux system.

Projects :

* Embedded C program to receive AIS data from remote stations over TCP/IP.
* Embedded C based HTTP server for AIS data visualization.
* C based MQTT protocol development.
* Ansible based scripting to deploy the software on remote stations.
* Preparing remote stations and packaging.

Associate Software Engineer – Embedded C programming.

Robert Bosch Engineering and Business Solutions Limited, Bangalore, Bangalore (India)

**Role**:

* Automotive communication application developer for Airbag ECU.

(Protocols: CAN, FlexRay - AutoSAR).

* Development activities for Event Data Recorder for Crash.
* Lead developer and single point of contact for CAN application in the team and for OEMs (Chinese and Indian).
* Trained and lead team of four CAN developers.
* Lead 3x5Y and 8-D for communication defects in the team.
* Part of quick response team (QRT) for defect analysis across airbags department.

Job Experience

*Hobbies and Interests:*

Charcoal/Pencil sketch (Portraits)

AMATEUR ASTRONOMY

Playing VIOLIN (Western Classical)

References:

Vessel tracker:

David Hewson

global iot Network manager

hewson@vesseltracker.com

Bosch:

Rajat Ranjan

Team Lead

ESA-CNOEM

RBEI-Bangalore.

[Rajat.Ranjan@in.bosch.com](mailto:Rajat.Ranjan@in.bosch.com)

+91-80613 62365

Bangalore Institute of technology:

K. Nirmala Kumari

Associate Professor

Dept. Electronics and Communication Engineering

[knkbit@gmail.com](mailto:knkbit@gmail.com)

+91-98443 02686

Skills

Technical Competency:

* **Programming** : C, C++, Verilog, VHDL, MATLAB
* **Scripting** : Python
* **Protocols** : CAN, SPI, FlexRay, I2C, USB
* **Microcontroller/processors** : Renesas, ATMEL and 8051,

Raspberry Pi

* **FPGA** : Artix A7, Zynq 7000
* **RF Software/tools** : ADS, CST, Spectrum Analyzer,

VNA, Altium Designer, KiCAD

* **Software Defined Radio tools** : GNU Radio Companion, Pluto SDR,

RTL SDR, IIO Oscilloscope

* **Tools**  : Vector CANoe, CAN stress tool,

Oscilloscope, Signal generator.

* **Work Flow Tool** : Clear Quest, ALM, JIRA
* **SDLC** : V-Model, Agile
* **Unit Test** : VectorCast
* **IT-Process Assessment** : A-SPICE
* **Configuration Management** : MKS , Tortoise- SVN, git
* **Requirement Management** : Doors

Project:

* **Master Thesis** : Investigation of Software Defined Radio (SDR) for Surface Acoustic Wave Sensor (SAW) interrogation in S band.(since 06/21)
* S band Microstrip Patch Antenna Design and simulation in CST.
* Phased array antenna beamsteering hardware and software development board with ATmega328p and MATLAB GUI.
* X-band Dielectric Resonator Oscillator design in ADS.
* SoC implementation of Beamforming Algorithm with Microblaze processor and DSP custom IP using Xilinx Vivado and HLS on Artix 7 FPGA
* SDR implementation of demodulation and decoding of AIS signal using RTL-SDR RTL2832u.
* Embedded HTTP- Web Server development on ARM922T in C.
* Event Data recorders data storage and analysis in cloud on car crash at RBEI.
* LIDAR image processing for next generation autonomous vehicles at RBEI.
* Automotive Communication development on CAN protocol at RBEI.
* **Bachelor Project** : Automated traffic signal lights and synchronization using google maps and GSM.(04/15-06/15)

Honors /awards:

* MHRD (Ministry of Human Resource Development, Govt. of India) scholarship awardee.
* Qualified for Scholarship for Higher Education (SHE) under Innovation in science pursuit for Inspired research (Inspire-Govt.of India)
* 1st rank in 10th board exam in High School

Certifications:

* **Robert Bosch** : Automotive Embedded System.
* Algorithm Development
* Airbags Operating System Overview
* Configuration Management
* Doors Requirement Management
* VectorCast Tool Usage
* **BSNL** (Govt. of India Enterprise) : Vocational Training.