

B.E, Electronics and Communication Engineering graduate with keen interest to be associated with an organisation that would provide an opportunity to work with a team that strives to grow with the organisation

## EDUCATION

**B.E, Electronics and Communication Engineering**, BMS College of Engineering, CGPA: 9.01/10.00 **Aug 2016 — Sep 2020**  
**12th Standard**, St Josephs's Pre-University College, 92.5% **May 2015 — Mar 2016**  
**10th Standard**, St Josephs's Indian High School, 96% **Jun 2013 — Apr 2014**

## WORK EXPERIENCE

**Software Test Engineer** **Jan 2021 — Present**  
Robert Bosch Engineering and Business Solutions **Bangalore**

- Airbag Embedded Software Validation Engineer, primarily working on Drive Data Recorder and Diagnostic features
- Responsible for Test Specification, Test Automation Script Development for Hardware in Loop (HiL) validation using Perl Framework.

**Intern** **Jan 2020 — May 2020**  
Robert Bosch Engineering and Business Solutions **Bangalore**

- Designed Automation Tools for Signal Visualisation and Test status updation using python for Vehicle Motion Control Team
- Contributed in Vehicle Motion Control Software Validation using Matlab and Simulink

**Intern** **Jul 2019 — Aug 2019**  
Verikwest Systems **Bangalore**

- Worked on developing VIP for low power interface module in AMBA for ARM processor
- Designed Tests to verify the functionality of the module

## PROJECTS

**Deep Learning and Cloud Based Driver Monitoring System** **Jan 2020 — June 2020**

- Designed a system to continuously monitor driver to detect passive driver violations based on image classification
- Data such as type of violation, snapshot, GPS co-ordinates etc would be uploaded to cloud storage

**Bomb Defusing Robot** **Aug 2019 — Dec 2019**

- Designed a semi autonomous robot with Node MCU and RPi 3 controllers for safe defusing of explosives. Can be operated at a safe range with live video feed for the person controlling the bot
- Fitted with an arm to cut wires in explosives, it can be remotely operated used android phones

**Ant Bot** **Nov 2018 — Mar 2019**

- Implemented as a part of E-Yantra - a national level robotics competition. Basically a system for carrying Cargo to the destination based on colour coding of the cargo
- Worked extensively on Image processing and locomotion of the system. Analogy is drawn between ant as a bot, ant food as cargo and godown as ant hill, hence the name Ant Bot

**Obstacle Detection System** **Jan 2018 — Apr 2019**

- The system was implemented on Arduino UNO controller, it was able to detect, measure distance and the angle at which the object was detected
- The presence of obstacles and the related parameters can be continuously displayed on a PC with simple GUI

## TECHNICAL SKILLS

**Programming/Scripting** C, C++, Python, Perl, Verilog, System Verilog  
**Tools/Libraries** Matlab & Simulink, Vivado, NC Verilog, CANoe, Open CV, Keras  
**Protocols** SPI, I2C, UART, CAN

## ACHIEVEMENTS

**2020** Published a paper on Deep Learning and Cloud based Driver Monitoring System in International Journal of Advanced research in Electrical, Electronics and Instrumentation Engineering  
**2019** Pre-finalist Eyantra 2018 edition  
**2018** Bronze Certificate in India Innovation Challenge Design Contest by Texas Instruments  
**2018** Organising Committee member of ELSOC (Electronics Student Body Association)  
**2018** Event Co – coordinator at Phase shift ( Annual Tech fest)