

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

Associate Software Engineer Robert Bosch Engineering and Business Solutions	Jan 2021 — Present Bangalore
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- 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 Robert Bosch Engineering and Business Solutions	Jan 2020 — May 2020 Bangalore
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- 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 Verikwest Systems	Jul 2019 — Aug 2019 Bangalore
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- 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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)