

# Vishvesh Khanolkar

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## EDUCATION

### Goa College of Engineering (Goa University)

*Bachelor of Engineering, Electronics and Telecommunication*

Goa

July 2018 – July 2021

### Institute Of Shipbuilding Technology (Goa University)

*Diploma, Electronics and Communications*

Goa

July 2015 – July 2018

## TECHNICAL SKILLS

**Languages:** C, Embedded C, Python.

**IDEs:** DEV C++, CS+, VS Code, STM32CubeIDE.

**Hardware/uCs:** STM32F, R-Car-M3e, ST-Stellar.

**uC Peripherals :** ADC, PWM, TIMERS, SPI, I2C, UART, INTERRUPTS, DAC, GPIO etc.

**Tools:** Vector Canoe, Trace32, winIDEA, DOORS, JIRA, SVN, Git, Github.

## EXPERIENCE

### Senior Engineer

*Continental Automotive*

Dec. 2022 – Present

Bangalore

- Development of **QSPI** driver to communicate between processor and NOR flash memory.
- Implemented inter-cluster communication solution utilizing **Queue** concepts, facilitating reliable and efficient data transfers between multiple clusters.
- Designed and implemented NVM APIs for reading, writing, and retrieving error statuses in the AUTOSAR NVM stack, enhancing data management and system reliability.
- Ensured code quality and compliance with MISRA-2012 guidelines, conducting thorough software unit testing and static code analysis.
- Development of **Bootloader** for ECU enabling remote firmware updates and reducing the need for physical interventions.

### Engineer

*IFB Industries Limited (Home Appliances Division)*

Nov. 2021 – Dec. 2022

Goa

- Development of software (Application Layer) for the changes required in the Washing Machines.
- Worked on the development of Steam Model in the Top Loader washing machines.
- Expertise in developing the Low Level Driver Layer for microcontroller peripherals.

### Intern

*Siemens Healthineers*

Aug. 2017 – Oct. 2017

Goa

- Software and Hardware testing of X-RAY machines.

## PROJECTS

### IFB Steam Model (Top Load Washing Machine)

- Worked on the development of Steam Models in which Steam Functionality was to be added as a new feature in the Top Load washing machine at IFB.

### Anti Theft Door Security System Using Face Recognition - BE

- Effective security system to protect house from unauthorized people.
- Worked on Raspberry pi.
- • Alerting the owner if any intruder tries to enter the house using GSM module and SMTP library.

### Voting Machine Using Microcontroller - Diploma

- Voter casts the vote to respective candidate and it gets stored in microcontroller and the results are displayed on LCD screen.
- Worked on keil software for compiling code.
- Designed the PCB using Eagle software.