

ABHILASH NAYAK

FIRMWARE ENGINEER

OBJECTIVE

Seeking a dynamic embedded engineering position where I can apply my knowledge in embedded system and programming language to gain hands on experience learn from seasoned professional and contribute effectively to projects while enhancing my skill

SKILLS

- EMBEDDED C
- MATLAB
- MATLAB SIMULATION
- PROTIUS FOR DEVELOPING SCHEMATICS
- AVR MICROCONTROLLER (8 BIT)
- STM32 MICROCONTROLLER 8051
- I2c
- SPI
- UART
- CAN
- FIELD ORIENTED CONTROL(FOC) FOR BLDC MOTOR

CONTACT

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EDUCATION

SIKSHA O ANUSANDHAN

JUNE 2014 – MAY2018

BACHLOR OF TECHNOLOGY IN ELECTRICAL ENGINEERING

MADNAWATI PUBLIC SCHOOOL

JUNE 2012 – MAY 2014

WORK EXPERIENCE

RT VISION TECHNOLOGY PVT LTD FIRMWARE ENGINEER

MAY 23–PRESENT

Working on R&D department to debugging fixing circuit, studying schematic and fixing fault in the circuit and Programming controller like AVR, Stm32,8051. Implementing code in embedded. Implement of UART, I2C AND SPI in controller. Worked with CAN protocols and used BLDC motor to run in 6 step and FOC mode.

Odisha Power Transmission Corporation limited Graduate Apprentice Trainee

Dec 19 – Dec 20

WORKING in Operation and maintenances department in 132/33kv grid maintaining records and heath status of transformer and protection device. Providing maintenances work if required in a system

PROJECT

DOOR CONTROL UNIT FOR PLATFORM SCREENING DOOR (PSD)

This project is based on stm32 micro controller and BLDC motor for operation of platform door which is SIL2 certified. And follows MISRA C standards.we have implimented CAN FD for boot loading for FOTE for dcu doors. We have used field oriented control for operation of BLDC motor.

Water level indicator

This project is based on stm32 micro controller.which include uart operation spi for eeprom to save information. Used 10-bit ADC ic for float sensor. Used rs485 module to send and receive information from external device.

Toilet monitering system

This project is basd on AVR(8 bit microcontroller).which provide public announcement railways toilet. Which used internal ADC for oder sensor. Used rs485 module to transmit signal.used uart to communicater with peripheral from microcontroller