



# VINAY KUMAR SINGH

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## PROFILE

Father's Name : Amit Kumar Singh  
DOB : 09/01/1998  
Lang. Known : Hindi, English

## OBJECTIVE

To work for an organization which provides me the opportunity to enhance my knowledge, skills and experience and utilize them for personal, along with organization growth.

## TECHNICAL SKILLS

- Embedded C Programming
- ARM Cortex M
- Embedded Operating System
- Real Time Operating System (RTOS)
- C++ ■ CAN ■ I2C ■ SPI ■ UART
- STM32 ■ VIM Editor ■ VS Code
- Linux

## WORKSHOPS/TRAINING

- Training at BHILAI STEEL PLANT (2018)
- Training at CSEB Bhilai-3 (Meter Testing) (2019)

## INTERESTS

- Cricket
- Grooming Pets
- Driving

## PROJECTS

### ANTI-LOCK BRAKING (ABS) SYSTEM USING CAN PROTOCOL

*Platform : Hardware Platforms (ARM, AVR, DSP etc)*

In this project , we demonstrated the working of an Anti-Lock Braking (ABS) system which is used in vehicles to prevent wheels from locking up during braking. CAN protocol is implemented using two CAN nodes, each consisting of a STM-32 board plus a CAN transceiver (MCP-2551). LM-393 speed sensor is used for measuring wheel speed and LCD is used for display

### A NOVEL APPROACHE ON RENEWABLE ENERGY RESOURCES BASED 3 PHASE MICRO GRID MODELING

*Platform : MATLAB*

In this study , we proposed a hybrid energy system which combines both solar panel and wind turbine generator as an alternate for conventional source of electrical energy like thermal and hydro power generation. A simple control technique to track the operating point at which maximum power can be coerced from PV system and wind turbine generator system. A software simulation model is developed in MATLAB/Simulink.

## EDUCATION

**CDAC PG Diploma in Embedded System Design** 2023  
SunBeam Institute of Information Technology, Pune-Karad  
*Percentage : 67.5%*

**B.Tech. (Electrical)** 2021  
Christian College Of Engineering & Technology  
Kailash Nagar, Industrial Estate, Bhilai - 490026  
*(Percentage : 67.90%)*

**Higher Secondary ( CBSE XII)** 2016  
B.S.P. Senior Secondary School Sector 06 Bhilai.  
*Percentage : 46.8%*

**Senior Secondary ( CBSE X )** 2014  
B.S.P. Senior Secondary School Sector 06 Bhilai.  
*(6.4 CGPA)*