

Shivam Kumar Dubey

INQUISITIVE, HARDWORKING

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EXPERIENCE

TATA STEEL, Jamshedpur — *Inspire T School Summer Intern*

MAY 2020 - JULY 2020

Worked on a Furnace Control System which included an understanding of the PLC for Process Logic Control and Network and also recommended solutions for industrial problems which included Zone Temperature and Pressure Fluctuations.

HEC Ltd, Ranchi — *Industrial Visit*

JUNE 2019 - JUNE 2019

I visited the plant and have practically seen electrical substations, electrical machines, and their parts, and some Industrial furnaces.

EDUCATION

BIT Mesra, Ranchi — B.E. (Electrical And Electronics Engg.)

July 2017 - May 2021 (Expected)

CGPA : 8.9 / 10

R K Public School, Garhwa—C.B.S.E.(12th)

June 2014 - March 2016

Percentage:84.2%

PROJECTS

Automatic Power Factor Correction unit

Power factor correction is the capacity of absorbing the reactive power produced by a load. It determines the phase angle lag (ϕ) between the voltage and current signals and then determines the corresponding power factor ($\cos \phi$). Then the microcontroller calculates the compensation requirement and accordingly switches on the required number of capacitors from the capacitor bank until the power factor is normalized to about 0.9.

Buck-Boost Converter

Buck-boost Converter has been designed which can step up a dc input voltage or step down a dc input voltage depending on the duty cycle of the switch which has been controlled using Arduino.

Temperature based Home Automation System

The working mainly depends on the relay and thermistor as the temperature increases the relay will be turned on and if the temperature decreased below the preset value then Relay will be turned off.

SKILLS

Languages: Matlab, PLC(Ladder Logic &Functional Block Diagram).

Tools: Matlab, Arduino Boards, Simulink, Control System Toolbox, System Identification Toolbox, LTspice, RSLOGIX 500.

Others: Problem Solving, Teamwork.

POSITION OF RESPONSIBILITY

BITOTSAV'18 College Cultural Fest: Worked as a member of the Events Team for the cultural fest of BIT Mesra

ACHIEVEMENTS || HOBBIES

Second Runner Up-

SMP(Student Mentorship Programme) Conducted by EEESoC, BIT MESRA.

Playing and watching Cricket, Volleyball and listening to music