Abhay Chirania

Self-motivated and hardworking individual with a knack to learn new technologies.

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SKILLS

Python

Teaching

Computer Vision

Embedded C

Microcontroller

Electronics

loT

Assembly language

PCB Designing

Deep Learning

Game Development

Communication

LANGUAGES

English

Bilingual proficiency

Hindi

Native proficiency

Bengali

Limited Working Proficiency

Nepali

Limited Working Proficiency

German

Elementary Proficiency

EDUCATION

B.Tech - Electronics & Communication Engineering

2018-2022

2017-2018

SRM Institute of Science and Technology

9.95 CGPA

Class 12

M.P Birla Foundation Higher Secondary School

92%

Class 10 2015-2016

M.P Birla Foundation Higher Secondary School 94%

WORK EXPERIENCE

Head Python Educator - iCodeiCreate

2020-2021

Online Tutoring startup with the vision of making coding fun.

- Responsible for designing curriculum and teaching Python, Image processing and Computer vision.
- Conducted several workshops in affiliation with various schools.

POSITION OF RESPONSIBILITY

Electronics head - Etros Solareon Racing

2020-2021

Oficial Solar car team of SRM Institute of Science & technology

As a member of the electronics and coding domain of the team, i am responsible for designing and implementing electrical and electronics systems of the solar vehicle.

Secretary - LMNTRIX

2017-2018

Computer Club of M.P. Birla F.H.S School

As a secretary of the computer club of my school i was responsible for organising various inter-school as well as intra-school competitions and workshops. Along with my team i was able to successfully organise and co-ordinate a two day inter-school technical fest.

PUBLICATIONS

Research Paper

2021

A tiny CNN architecture for medical face mask detection for resource constrained endpoints

International Conference of Electrical and Electronics Engineering (Springer LNEE 2021)

Co-Authors: Aditya Jyoti Paul, Puranjay Mohan https://arxiv.org/abs/2011.14858

ACHIEVEMENTS

- Achieved Rank 1 in ECE Department (2019-20)
- Best Innovation Award in national solar vehicle competition (SUVC-2019)
- Best project award received from physics department of SRM (2019)
- Runners up in inter-state darts championship organised by Bengal Rowing Club (2018)

INTERESTS

Verilog

FPGA

ARM

Gaming

Electric Vehicles

PROJECTS

6502 Emulator and Assembler (2021)

■ Developed 6502 Emulator and assembler along with GUI from scratch in python.

Sketch2Web - AI to Convert handrawn sketch to html templates (2021)

- Using Machine learning, built a system thant converts drawn html template designs to actual html code.
- Useful for webdesigners to quickly prototype and visualize their design.

Remote acess tool with wireless file transfer system (2021)

- Built a reverse shell with multi-client support in python using sockets which allows execution of commands on multiple computer on same network.
- Allows for wireless transfer of files between client and server.

Augmented Reality Rubik's Cube solver (2021)

 Using Python Opencv module, built a system which can solve any 3x3 Rubik's cube live on webcam

Controlling solar car using automotive relays and RF communication (2020)

- Successfully designed and built the system to control basic functionalities of the car.
- Designed PCBs for the whole system along with the switching mechanism between manual and automatic acceleration.

Health monitoring system for solar car (2019-20)

- Worked on a system to monitor RPM, temperature, battery voltage and other parameters of car and display on custom built android application used as dashboard.
- RPM counter built on Atmega32P using interrupts.
- Data pushed to AWS Cloud server as well to allow pit crew to monitor the car.

Android based car dashboard (2020)

- The application was designed to act as dashboard of the car and communicated with the health monitoring system wirelessly via bluetooth.
- One of the most interesting feature of the app was Lap counter which was accompolished using