Varchasv Arora

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Education

LM School of Thapar	CGPA:8.40
MBA(Business Analytics and Finance)	*2023 – 2025*
Thapar Institute of Engineering & Technology, Patiala	CGPA : 8.02
B.E. : Electronics & Communication	*2020 – 2023*
Venkateshwar International School , Dwarka Sec 10 ,Delhi	94.3%
CBSE (Grade XII)	*2020*
Venkateshwar International School , Dwarka Sec 10 ,Delhi	87.6%
CBSE (Grade X)	*2018*

Skills

C/C++ | DSA | Arduino | Python | MATLAB | MySQL | Machine Learning | Tableau | Power-BI | MS-Excel |

Projects/Research Work

Automatic Line Follower Table Serving Robot| *Robotics, DC Motors, IR Sensors, Ultrasonic Sensors, Wireless Communication, Blynk App, Internet of Things (IoT)*   Jun 2023 – Aug2023
  - Designed and built an automatic line follower table serving robot. The robot uses a 12V DC motor, LM 298 motor driver, IR sensors, ultrasonic sensors, and a wireless module. It is capable of receiving table orders via the internet using the Blynk app.

Denoising of Signal using IIR Filter | *MATLAB, SIGNAL PROCESSING, IIR FILTERS*   Aug 2022 – Sept 2022
  - Implemented an IIR filter in MATLAB for signal denoising. The project involved applying advanced signal processing techniques to remove noise from signals, enhancing their quality and readability.

Real-life Implementation of a Mangonel using TinkerCAD| *TinkerCAD, 3D Modelling, Physical Construction*
                                                                                                        Sept 2020 – Oct 2020
  - Designed and constructed a real-life mangonel using TinkerCAD. The project involved creating a 3D model of the mangonel, simulating its operation, and then building the actual device.

Gantry-Tracking Line Following Robot | *Arduino IDE*   Jan 2021 -– Jun 2021
  - Designed and implemented a gantry detection algorithm using IR sensors to ensure precise recognition of gantry structures.
  - Integrated collision detection sensors and algorithms to enable the robot to detect obstacles in its path and halt to avoid collisions while maintaining consistent line following.

Achievements

  ∗ **Mastering Data Structures & Algorithms using C and C++**

  https://www.dropbox.com/s/qw2qfwgray3b1pq/UC-eace794c-4d7f-404e-ab26-d190a7558c31.jpg?dl=0

  ∗ **Online Course on Internet Of Things from Teachnook, Bengaluru**

  https://www.dropbox.com/s/uj5lbyqwi0b5z08/1944059584.jpg?dl=0