

RESUME

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EDUCATION:

Qualification/Degree	School/College	University or Board	%/CGPA	Year
B. E. (ECE)	Chitkara University Institute of Engg. & Tech., Punjab	Chitkara University	9.60	2018-2022
Class XII	Dhilwan International Public School	C.B.S.E	80.4	2017-2018
Class X	Dhilwan International Public School	C.B.S.E	9.2	2015-2016

TRAININGS:

- Trainee R&D Engineer RMS Pvt. Ltd.** (May 2022- Present)
As trainee, the day-to-day responsibilities include design, development & testing of real-time embedded Applications using embedded C and different embedded development tools. Worked with various controllers LPC2378, LPC1778 and STM32 controllers. Worked on the Serial communication protocols like I2C, SPI, UART. Hands on experience with ADC, Timer, UART, Interrupts.
- IoT Intern at Techolution** (December 2021- June 2022)
As an intern, the day-to-day responsibilities include **working with the technology team to develop various IoT solutions**, perform coding on Go, Raspberry Pi, Embedded Systems, and other such.

PROJECTS :

- Automatic Water Management System** (October 2018-March 2019)
A system that uses water efficiently and helps in saving water in daily life. This uses the water being used for washing hands in public washrooms to clean the urine basin automatically.
Technologies used: Arduino, IR Sensor, AC Water Pump, Relay
- Web Based Inventory System** (February 2021-June 2021)
An online software application which fulfills the requirement of a typical Stock Analysis in various Labs. This application aims to reduce the manual effort needed to manage data in various Labs. Also this application provides an interface to students to view their details.
Technologies used: HTML, CSS, PHP.
- Parking Management System .** (March 2021-March 2021)
A system that saves the time of parking at crowded places and manages the parking efficiently. All parking slots, whether occupied or empty, can be seen on a mobile application according to which the driver can be instructed to go to a particular space where the car can be parked.
Technologies used: Node MCU, IR Sensors, Blynk App.
- Arduino Based RoboCar** (August 2019-September 2019)
An automated guided vehicle, which follows a visual line embedded on the floor or ceiling. Usually, the visual line is the path in which the line follower robot goes and it will be a black line on a white surface but the other way (white line on a black surface) is also possible.
Technologies used: Arduino, IR Sensors, DC Motors and Motor Driver

ACHIEVEMENTS:

- NOVATE 2019, Our project got selected in top 100 projects.
- TECHACKS 1.0, Reached in the final round of TECHACKS 1.0 at Chitkara University.
- Awarded by Chancellor of Chitkara University for the best academic results in 2019.

PROFESSIONAL SKILLS:

- **Languages:** C, C++, HTML, CSS, PHP, Data Structure, Go
- **Hardware:** Arduino, PCB Designing, Embedded System, Digital Circuits
- **Workshop:** Circuit Sketching, Make Your Own Sensor Board, Energy Literacy, Google Digital Marketing
- **Online Certifications in :** Introduction to Web Development (COURSERA), AI For Everyone (COURSERA), Introduction to the Internet of Things (COURSERA), Building Web Applications in PHP (COURSERA)

CO-CURRICULAR ACTIVITIES:

- The EXECUTIVE of IETE (The Institution of Electronics and Telecommunication Engineers) at Chitkara University since 2019.
- The Organising EXECUTIVE of SAE INDIA (Society of Automotive Engineers) at Chitkara University since 2019.
- Volunteered for organising of Virtual BAJA SAE INDIA organised by Mahindra at Chitkara University.
- Volunteered for organising of BAJA SAE INDIA organised by Mahindra at Chitkara University.
- Organiser of TECHACKS 2.0 organised by Electronics Department of Chitkara University.
- Volunteered for organising of FSDC (Future Solar Design Challenge) organised by SAE INDIA at Chitkara University.

INTEREST:

- Cricket
- Photography
- Travelling
- Cooking
- Indic Culture

(Karanvir Singh)