# B Pardiv Satya Kumar

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## Summary:

Motivated Electronics and Communication Engineering graduate with hands-on experience in IoT, Embedded Systems, and software development. Skilled in C, Java, Python, Verilog, microcontroller programming, and circuit design. Experienced in building real-time embedded applications and integrating hardware with cloud/communication technologies. Seeking opportunities in IoT, Embedded Engineering, Core Electronics, or Software Development roles.

## Education:

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|---|---|---|---|
| BTech ECE | (87.2 %) | VIT-AP University, Amaravati, Andhra Pradesh | 2021 - *2025*. |
| Intermediate MPC | (86.7 %) | Sri Chaitanya junior College, Gudivada, AP | 2019 - *2021*. |
| 10th Standard SSC | (97 %) | AGK Municipal High School, Gudivada, AP | *2019*. |

## Campus Placement Offer(s):

Tata Consultancy Services (TCS)
Assistant System Engineer - Trainee
Offer Received through Campus Placement (waiting for joining letter)

## INTERNSHIPS & CERTIFICATION:

- *AHB to APB Bridge design, - Maven Silicon* Sep - Nov 2023

Worked on the project **AHB2APB bridge design** using Verilog HDL. And created the bridge design and implemented successful.

- *Internship program on "Internet of Things", - Vision Technologies*, Aug - Oct 2023

Developed an idea about **Smart Power Consumption in large- and small-scale industries**. Researching IoT technologies and their applications in optimizing power consumption, using Raspberry pi.

- Introduction to IoT by Cisco & NASSCOM FutureSkills.

## SKILLS:

**Programming languages:** C, Java, Python, HTML, CSS, iVerilog.
**Embedded & IoT:** Arduino, ESP32, Raspberry Pi, Sensor Interfacing, Serial Communication
**Tools & Software**: MATLAB, R, LabVIEW, Xilinx Vivado, Eclipse, Arduino IDE, Multisim
**Concepts**: Digital Electronics, Microcontrollers, IoT System Architecture, Networking Basics
**Sensors:** PIR, DHT, LDR, Ultrasonic,
**Soft Skills:** Communication, Smart Work, Good Listener, Good Team Leader, Team Collaboration

## PROJECTS:

- **'Accident Prevention and Alert System'**, VIT-AP University June - Aug 2023.

*Technologies:* Arduino, Ultrasonic Sensor, GSM Module

- Designed an accident detection system that triggers emergency alerts via GSM communication.
- Enabled real-time hazard response to minimize accident impact time.

- **'Surveillance robot'** using Arduino board, VIT-AP University Sept – Dec 2022.

*Technologies:* Arduino, ESP32-CAM, Motor Driver Module

- Built a real-time wireless surveillance robot using ESP32-CAM for live video monitoring through website.
- Implemented motor control and remote movement control with microcontroller programming.

## Research Papers:

I presented our paper entitled "***BER Analysis of NOMA-CRS with ML-Aided PS-PA Power Optimization over Nakagami-m channels***" in **International Conference on Artificial Intelligence and Smart Technologies for Sustainability (AISTS 2025)** organized and hosted by **Marwadi University**, Rajkot in collaboration with **IEEE Gujarat Section** on **August 21st - 23rd, 2025**. This paper was **successfully published on** the **IEEE** website in **November 2025.**

## BOOTCAMPS

Front-end developer Boot Camp Organized by CSI-Chapter (club), VIT-AP University
Project created in this bootcamp: My Portfolio

## Languages:

English (Fluent), Telugu (Native), Hindi (R/W)