# PARIKSHIT JOSHI

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## EXPERIENCE

➔ **Research Intern – ISRO Space Applications Centre, Ahmedabad, Gujarat, India.**　　Feb. 2024 – June 2024
- Developed Firmware for USB 3.0 based Data Acquisition System.
- Designed algorithms for implementing I2C, SPI, UART and Parallel Data Bus using C/C++.
- Performed Firmware Debugging.
- Skills honed: Firmware Development using C/C++, Debugging.

➔ **Embedded Systems Intern – Galanto Innovations Pvt. Ltd., IIT Gandhinagar, Gujarat, India.**　Aug. 2023 – Sept. 2023
- Developed algorithms in C/C++ for collecting and filtering data from sensors.
- Designed PCB for IMU sensors and interfaced it with Arduino-based boards.
- Represented the company at India MedTech Expo 2023.
- Skills honed: C/C++/Arduino Programming, IoT, PCB Designing using KiCAD, Public Speaking.

## SKILLS

➔ **Technical:** C/Embedded C/C++/Java/Assembly, Computer Organization and Architecture, 8051 MCU, 8085/86 MPU, CAD, IoT, AI/ML, HTML,CSS, MS Office, RTOS, Communication Protocols.
➔ **IDEs:** VSCode, Eclipse, IntelliJ, Sublime, Keil, Arduino, KiCAD.
➔ **Interpersonal:** Content Writing, Public Speaking, Leadership and Management.
➔ **Hobbies:** Music (Vocal/Harmonium/Piano – completed Diploma in Indian Classical Music), Chess.
➔ **Languages** (Full-Proficiency): English, Hindi, Gujarati, Marathi.

## PROJECTS & CERTIFICATIONS

➔ **PCB Design Certification – Pantech Institute.**
➔ **555 Timer Badge PCB:**
　Designed an IC 555 Timer IC based ID Card PCB using KiCAD.
➔ **8051 Prototype board:**
　Designed prototype of Intel 8051 Microcontroller Development Board using KiCAD with components like USB peripheral, MAX232, RS232.
➔ **Remote Controlled Quadcopter PCB Design:**
　Developed Controller Unit of a Remote Controller Quadcopter using Teensy 4.0 MCU, in KiCAD.
➔ **BNO086 IMU Sensor:**
　Developed PCB for BNO086 IMU Sensor using KiCAD, which is used to calculate motion of fingers, designed in such a way that it can fit on the knuckles.
➔ **IBM SkillsBuild Data Analytics Internship:**
　Developed a Deep-Learning based model that could predict the polar ice-sheet extension area in the upcoming 120 days from the days of inquiry. My team secured the runner-up position at the National Level.

## EDUCATION

➔ **Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, India:**
　M.Tech in ICT (Information and Communication Technology) specializing in Software Systems　　2024 - Present
➔ **Government Engineering College, Gandhinagar, Gujarat, India:**
　Bachelor of Engineering (B.E.) in Computer Engineering. CGPA: 8.35　　2020 - 2024
➔ **Bright English Medium School, Vadodara, India:** HSC - 96 PR.　　2020