

HEET RADADIYA

Portfolio · radadiyaheet@gmail.com · [GitHub](#)

Summary

3rd year BE Information Technology student focused on System Software Engineering — Operating Systems, Networks and low-level programming. Experienced working with Web Technologies, Application Development, ROS2, NAV2. Finalist in multiple national hackathons and robotics competitions. Always up to talk and build software from the fundamentals up.

Technical Skills

- Languages: Python, Java | Currently Learning: C/C++ & Rust
- Systems & OS: Linux, POSIX, Shell Scripting
- Robotics: ROS2, Nav2, Inverse Kinematics, Sensor Fusion, Autonomous Navigation
- Tools: Git, GitHub, GDB, Docker, Jupyter Notebooks

Projects and Experience

Robofest 4.0: National Level Competition organized by [GUJCOST](#) | Software Developer

- **National Finalist** among top teams across India
- **Autonomous Navigation:** implemented full navigation stack on a 6-wheeled Rover using ROS2
- **Inverse Kinematics:** Developed and tuned IK solution for differential drive rover for precise movement control
- **Sensor Integration:** Integrated, tested and calibrated multiple sensors (IMU, LiDAR, GPS, encoders) into a unified ROS2 stack for precise and accurate autonomous navigation

ProtoQuik: Residential Cohort | Lead, Software

- **Competitive Selection** among top 13 startups for iCreate's flagship one-month residential cohort focused on Robotics
- **Software Architecture:** Full software stack planning and development for Rover, making core decision on framework, communication, and control flow
- **Nav2 Integration:** Led autonomous navigation implementation using Nav2. Responsible for simulation, tuning, testing and debugging navigation pipeline on physical hardware.

Achievements

- **Finalist**, Robofest 4.0 — National level Robotics competition organized by GUJCOST
- **Finalist**, New India Vibrant Hackathon — National level Hackathon organized by Gujarat Knowledge Society
- **Finalist**, OdooxIndus University Hackathon 2026 — competed against top teams in Gujarat
- **Selected** among 200 students for Altium Global Scholarship Program

Education

- **BE Information Technology** – Government Engineering College, Gandhinagar (2025-2028)
- **Diploma in Information Technology** – Sir Bhavsinhji Polytechnic Institute, Bhavnagar (2022–2025)