

# VIRAJ KULKARNI

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## EDUCATION

### Savitribai Phule Pune University

Bachelor of Engineering in Electronics and Telecommunications

**CGPA : 8.25/10**

January 2021 – May 2025

### Sawkar Science College Satara

HSC

**Percentage : 93.33%**

August 2019 – July 2021

## TECHNICAL SKILLS

**Languages and Databases:** Java, Python, C/C++, MATLAB, MySql, Blynk.

**Software:** Eclipse, MATLAB, VS Code, Proteus, MS Office.

**Other:** Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Data-Signal Processing and Analysis, CNC Programming and Operation, Computer networking, Embedded Programming and IoT.

## Internship EXPERIENCE

### Pantech ProEd Pvt Ltd

Jan. 2024 – March 2024

*Embedded Systems & IoT Engineer Intern*

- Developed IoT based solutions in an innovative manner and programmed microcontrollers, contributing to a **15% increase in system efficiency, 30% reduction in power consumption.**
- Implemented IoT protocols and collaborated on hardware-software integration projects, resulting in a **20% reduction in development time.**
- Improved **system performance by 25%** and **reduced tolerances by 15%** through effective sensor interfacing and optimization using **server-system integration.**

### Radiant Engineering

Dec. 2023 – Jan. 2024

*Automation Engineer Intern*

- Applied CNC automation skills for an industrial project, achieving precision fine boring on cylinder liners with a **precision of 66.10 mm ±0.005 mm**, critical for **achieving 99% accuracy** in automotive sector applications.
- Developed proficiency in **CNC programming** and operation, setting **spindle speeds up to 1600 RPM** and optimizing machining processes, resulting in a **95% improvement in precision and efficiency.**
- Resolved independently **95% of operational issues**, **reducing scrap rates by 20%** and boosting manufacturing efficiency, resulting in a **15% improvement in client satisfaction scores.**

### AICTE NEAT-Mathworks

May 2023 – Sept 2023

*MATLAB developer Intern*

- Developed mathematical & AI based projects using **MATLAB**, focused on data visualization & data analysis by **90% error reduction.**
- Analyzed and processed datasets with **over 100,000 entries** to extract meaningful insights.
- Created comprehensive data visualizations, enhancing **data interpretability by 30% & accuracy by 25% .**

## PROJECTS

### Smart HealthCare System | *Embedded Software Programming & Interfacing, IoT Protocols, PCB Design & Assembly*

- Developed & implemented a **real-time healthcare system** that achieved data transmission and display **latency of less than 1 second**, providing accurate and timely health metrics.
- Optimized the system's **power consumption by 30%**, ensuring continuous operation without any interruption.
- Conducted user testing, reporting a **96% accuracy & 40% more cost-efficiency** for ease of use and data reliability.

### Automotive Precision Fine Boring on Cylinder Liners | *CNC Programming and Operation, Quality Management.*

- Achieved a **bore diameter of 66.10 mm with ±0.005 mm precision**, meeting automotive standards.
- Led a team to optimize CNC processes, **increasing efficiency by 35% , increasing accuracy by 99% and reducing scrap rates by 20%.**
- Successfully met all specifications, **earning a 15% increase** in client satisfaction and industry recognition. .