

Mojes Dhotre

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SUMMARY

Electronics and Telecommunication Engineer specializing in embedded systems, AI, and robotics. Experienced in developing intelligent systems for automation, surveillance, and IoT applications. Passionate about solving real-world problems through innovation, with hands-on expertise in embedded AI and autonomous systems. Eager to drive impactful projects and grow in dynamic, technology-driven environments.

PROFESSIONAL EXPERIENCE

1) Electronic Voting Machine (IoT & Embedded)

- Biometric authentication using Fingerprint Sensor & Arduino
- Secure data via cryptographic hashing
- **Tech:** C++, Arduino, Embedded C

2) Advanced Surveillance and Multi-Utility Rover

- Designed an autonomous rover with custom gesture recognition for human interaction.
- Reduced parameters in object detection models for faster real-time performance.
- Integrated IR camera and 3D-printed rocker-bogie system for stable rough terrain navigation.
- **Tech:** Raspberry Pi, Python, OpenCV, TensorFlow Lite

3) Emotion Recognition AI

- CNN model trained for emotion classification
- Real-time processing using OpenCV
- **Tech:** Python, CNN, TensorFlow

5) Health Care Monitoring System (FPGA Project – Genesis)

- Developed a health monitoring device to track pulse, temperature, and heart rate
- Integrated an emergency alert system for critical health conditions
- Led the technical implementation and designed the website for system visualization
- **Tech:** Verilog/FPGA, Embedded Systems, Web Development

4) Dash Cam Barrel Distortion Removal (Freelance Project)

- Automated correction for 1000+ images
- Used OpenCV calibration & multi-threading
- **Tech:** Python, OpenCV, NumPy

EDUCATION

ST. FRANCIS INSTITUTE OF TECHNOLOGY

Bachelor of Engineering in “**Electronics and Telecommunication Engineering**”
Year: 2021 - 2025

NALANDA ACADEMY

Higher Secondary Education in “**PCMB**” (12th Grade)
Year: 2019 - 2021

SKILLS

1) Technical Skills: C++, python, Embedded C, Deep Learning, Linux, AI/ML , Neural Networks, SQL.

2) Soft Skills: Research & Analytical Thinking, Project Management, Problem-Solving & Critical Thinking.

3) Certifications:

- Career Essentials in Generative AI – **Microsoft & LinkedIn**
- Geo-data Sharing and Cybersecurity – **ISRO HQ**
- Python for Beginners – **NIELIT Campus**
- Overview of Space Science, Technology & Applications – **ISRO HQ**