



NAVNEET TIWARI

PROJECT ENGINEER

GET IN CONTACT:

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R.N. 204 Gayatri Lake View Apartment Bengaluru. (560099)

A highly organized and hard-working individual looking for a responsible position to grow more professionally. I'm confident in my skills and have ability to solve real-life problems and achieve customer satisfaction.

AREAS OF EXPERTISE:

Python | AI & ML | Embedded systems & Robotics | Automotive(EV) | Innovation

TECHNICAL PROFICIENCIES:

Programming Languages: Python 3 | Embedded C, C++ | MATLAB Scripting | LaTeX

AI & ML Technologies: Pandas, Numpy, Sklearn, OpenCV, OpenAI(Prompt Engg.)

Automotive: AUTOSAR, ASPICE, FUSA, CAN, Datacom Testing.

Robotics: RTOS, ROS 2, Robot kinematics, Control Systems, PLC, Drone Technology.

Others Technologies: Git, Agile, Scrum, **Linux**, Selenium, Micro-services, Matlab Simulink, Spreadsheets Analysis.

Soft Skills: Team-work, Adaptability, Problem-Solving, Articulate, Task Prioritization.

EXPERIENCE & INTERSHIPS:

Automation Engineer | Wipro Limited (Intel) (Oct' 2023 - Dec' 2024)

- As an Automation Developer, I played a key role in Post-Silicon Validation, by developing Python scripts to automate critical processes including CPU validation, OS boot validation, stress testing and troubleshooting boot stalls during various power cycles. My work ensured seamless automation of testing between the SUT and the Host Interface.
- Built and maintained Jenkins pipelines with GitHub for continuous integration where automated test case execution within sprints for assigned HSDs and also resolved bugs reported by the AIT team.
- Continuously performed test executions within an Agile framework, utilizing JIRA for sprint tracking, task prioritization, and bug resolution. Actively participated in Agile processes, including sprint planning, daily stand-ups, and retrospectives, to ensure timely delivery and alignment with project goals.

Automotive Engineer | Wipro Limited (Dana Incorporated) (Nov' 2021 - Apr 2023)

- Contributed to HW-SW optimization, dashboard development, and powertrain integration, focusing on designing user interfaces and vehicle subsystems for seamless real-time data display. Demonstrated exceptional organizational and time management abilities to consistently meet project deadlines.
- Developed and documented MATLAB and Simulink simulations to optimize battery management, regenerative braking, and motor control performance under varying conditions. Ensured Industry standards throughout development and testing phases, maintaining a strong focus on system reliability and performance.

Robotics Trainee Engineer | Magov Robotics (Mar' 2021 - Oct' 2021)

- Designed prototypes, test machines, and maintained the software that controls them.
- Created marketing plan and Organized Workshops and Webinars for Colleges and Schools.

Admin Staff Intern | VBPS Public School, Bareilly (Sep' 2020 - Feb' 2021)

- Handled the data of 1300 students and maintained school's **social media** Handle.
- Wrote and distributed email, memos, letters, and designed business templates.

RESEARCH WORK & PUBLICATIONS:

- Design and analysis of Kinematic model for a 12-DOF bipedal robot. (Accepted and presented in **IEEE Global AI SUMMIT 2024**), (Received **Best Paper** award)
- Development of PIXHAWK based Quadcopter: A bottom-up approach for current Consumption optimization. (Published In **MAITRI-2023**) (DOI - doi.org/10.1007/978-981-99-8129-8_26)

PROJECTS:

- **Machine learning Application in fast charging** analysis and report building. (**wipro**)
- **MBD based testing** guideline development and simulations for EV. (Wipro)
- Diabetics Prediction Model, Insurance cost prediction Model. (Udemy)
- Real-time Image face detection (Deep Learning) Using Webcam and PyTorch. (Udemy)
- Design, kinematic Analysis and real time control of 12 DOF **bipedal robot** for locomotion. (**Master's Thesis**)
- Simulation of 6 DOF KUKA Robot of its Forward and Inverse Kinematics using MATLAB.
- **Robotic Nurse** capable of performing Human nurse tasks and A Built-in Health monitoring system connected to doctors over a local server (**BTech Final year project**).
- **IoT Based projects** - Vehicle Security System, Advanced Home Automation.
- Hands-on experience on **Surveillance Drone, RC Glider Aircraft**.

TRAINING AND CERTIFICATIONS:

- **Data Science and Machine Learning** Basic to Advanced (Udemy | 2023)
- **Computer Vision** Fundamentals (Udemy | 2023)
- Complete **Pandas** for absolute Beginners (Udemy | 2023)
- **Azure Open AI & Prompt Engineering** with ChatGPT (Udemy | 2023)
- **Linux** Command Line (Udemy | 2023)
- **Oracle** cloud Fundamentals (Oracle | 2023)
- **Specialization in Python**, 5 Course series. (By University of Michigan |2021)
- **Embedded systems** (By University of California, Irvine | 2021)
- **Internet of Things** (Internshala Trainings | 2019)
- **PLC** (By Cepta Trainings | Jul' 2018)

ACADEMIC HISTORY:

- **M. TECH (MECHATRONICS ENGINEERING)**

CENTRE FOR ADVANCED STUDIES, AKTU LUCKNOW | PERCENTAGE: 73%

Subjects- Advanced Engg. Mathematics, Control System, Artificial Intelligence, Industrial Robot Automation, Sensors and Actuators, MEMS & NEMS.

- **B. TECH (ELECTRICAL AND ELECTRONICS ENGINEERING)**

SHRI RAM MURTI COLLEGE OF ENGINEERING & TECHNOLOGY BAREILLY.

PERCENTAGE: 67%

- **HSC (12TH)**

R. N.T. EDUCATION CENTRE INTER COLLEGE, ORAI.
(STATE BOARDS) PERCENTAGE: 86% | 2014-2016

- **SSC (10TH)**

S.V.M. INTER COLLEGE, ORAI. (STATE BOARDS)
PERCENTAGE: 88% | 2012-2014

ACHIEVEMENTS:

- Participated and won more than 17 Technical events like **Robowar, PID-based LFR**, robot hackathon, etc.) inside and Outside of college.
- I **helped 20+ students** accomplish their academic projects.
- I represented my college team at **state-level** volleyball tournaments twice under my captaincy and also won multiple badminton and table tennis tournaments.

HOBBIES:

Playing Volleyball and Badminton | Swimming | Chess | Yoga