



MOH SHAHID KHAN

Senior Research Fellow (Ph.D.)

Assistant Professor | Deputy Exam Superintendent
Graphic Designer | Social Media Coordinator

FACTS

Personal

Nationality: Indian 🇮🇳 20/09/1989

Languages: **English** (Professional)
Hindi (Mother Tongue)

Key Projects

▲ **AZAD-16 Humanoid/Biped Robot:**
Led the design, development, and testing of a fully functional **16-DOF** humanoid robot using **SolidWorks** for CAD, **3D printing** for manufacturing, and **MATLAB** for gait analysis and control system development.

▲ **ROS-based Auto-Navigation:**
Developed a **ROS2**-based hybrid navigation algorithm for **Mecanum**-wheeled robot 'Hiwonder MentorPi M1', integrating **PID** control, **YOLOv8**, **A***, **DWA**, and **Particle Filter SLAM** for real-time path planning, obstacle avoidance, 3D map generation, and **3D object detection** using **Lidar**, and a **3D depth camera**.

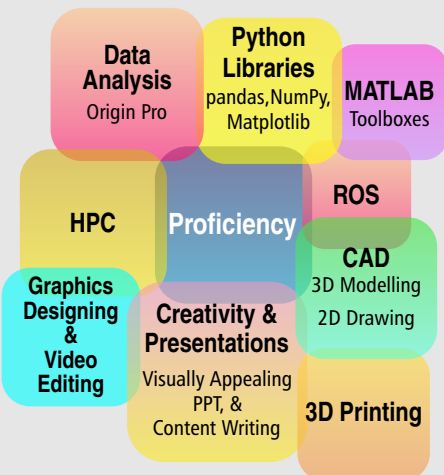
Areas of Specialization

▲ Humanoid/Biped Robot, Adaptive Gait Generation, Motion/Path Planning, Trajectory Planning, Kinematics (Forward & Inverse), Inverse Dynamics



SKILLS

MATLAB
Python
Linux
C++



DEGREES

- 2024 **Doctor of Philosophy in 'Robotics'** 🎓
July Maulana Azad National Institute of Technology 🇮🇳
- 2020 **M.Tech. in Thermal Engineering**, 77.10%
RGPV University 🇮🇳
- 2011 **B.E. in Mechanical Engineering**, 66.47%
RGPV University 🇮🇳
- 2008 **Diploma in Mechanical Engineering**, 69.30%
RGPV University 🇮🇳
- 2005 **High School**, 73.00%
State Education Board 🇮🇳

Current Status

Ph.D.
🇮🇳 MANIT Bhopal
Anticipated: **Nov 2024**

📄 **Articles Reviewed**
6 (SCIE) + 16 (Conference)

PUBLICATIONS

- **SCI Journals** 7
4 Published + 2 Under Review + 1 Under Writing
- **Conferences** 2
1 As Presenter + 1 in Collaboration
- **Collaborations (Ongoing)** 3
Helping computer science Ph.D. scholar for research on Biped Robots.
Leading project on ROS2 & Computer Vision based Auto Robot Navigation
Joint research with a colleague for Soft Robotics & 3D Printing.

EXPERIENCE

- Research Experience (3 Years+)** 🇮🇳
2021 To Present Maulana Azad National Institute of Technology (MANIT), Bhopal 🇮🇳
- Teaching Experience (4 Years+)** 🇮🇳
2018 To 2020 Sagar Institute of Science and Technology (SISTec), Bhopal 🇮🇳
2013 To 2014 Government Engineering College (GEC), Rewa 🇮🇳
2012 ABES IT Group of Institutions, Ghaziabad **ABESIT**

NATIONAL LEVEL COMPETITIVE EXAMS

- **GATE: Graduate Aptitude Test in Engineering**
Percentile- 2021: 83.94 🇮🇳 2015: 92.96 🇮🇳 2014: 88.15 🇮🇳
- **SSC: Staff Selection Commission** 🇮🇳
JE - Junior Engineer 2015, Preliminary and Mains Qualified
- **CSIR: Council of Scientific & Ind. Research** 🇮🇳
TO - Technical Officer (Mechanical) 2019 Preliminary

RECOMMENDATIONS



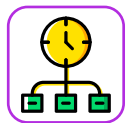
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Graphic Designing



Organizing



Hardworking



Smartworking



Helping



Cleaning