

SCHWITAAN R. IYER

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EDUCATION

Bennett University, Greater Noida, Uttar Pradesh, India.

Aug 2020 - May 2024

- **Bachelor of Technology in Engineering Physics and Computer Science**
 - **Ranked 2nd** in Batch.
 - **University Ambassador.**
 - **Batch Representative** of Engineering Physics Department 2020-2024.
 - **Project Head - Technotix BU Robotics Club.**
 - **Captain - Bennett University Table Tennis Team.**

CGPA – 8.12 out of 10

EXPERIENCE

Systems Engineer Executive – Hughes

Jan 2025 - Present

- I'm currently working as a Systems Engineer Executive at Hughes India, focusing on the development of next-generation networking solutions to drive connectivity and innovation. As part of the Product Development Team, I focus on building Software-Defined Networking (SDN) technologies, collaborating closely with a dynamic team under the direct supervision of the CTO.

R&D Engineer – Indian Institute of Science Education and Research, Bhopal

Jun 2024 - Dec 2024

- I continued my journey at IISER Bhopal and joined as a Research & Development Engineer under Dr. Sujit P.B. in the Multi-Robot Autonomy Lab. I was involved in developing hardware architecture and setup for various projects. I was building Autonomous Surface Vehicles and Aerial Vehicles to test our algorithms.

R&D Intern – Indian Institute of Science Education and Research, Bhopal

Jan 2024 - May 2024

- I worked as a Research & Development Intern under Dr. Sujit P.B. in the Multi-Robot Autonomy Lab. I was working and carrying out my research in the field of Marine Robotics and my project was "Precision Docking for Autonomous Surface Vehicle".

Summer Research Intern – Indian Institute of Science Education and Research, Bhopal

Jun 2023 - Jul 2023

- I worked as a Summer Research Intern under Dr. Sujit P.B. in the Multi-Robot Autonomy Lab. I was working and carrying out my research in the field of Aerial Robotics and my project was "Energy Efficient Path Planning for UAVs". It was a project in collaboration with the University of Buffalo and IISER Bhopal.

Summer Project Intern – Indian Institute of Technology, Indore

Jun 2022 - Jul 2022

- I worked as a Summer Project Intern under Dr. Unmesh Govind Khatri in the Department of Astronomy, Astrophysics, and Space Engineering (DAASE). I worked on the area entitled "Python for Earth Science" and my project was "Land Classification and Change Detection using Python".

SKILLS

- **Programming Languages:** Python, JavaScript, C, C++, Dart
- **AI & ML:** OpenCV, TensorFlow, PyTorch, Keras, NumPy, SciPy, Scikit, Pandas, Matplotlib, Seaborn
- **Web & App Development:** HTML/CSS, Django, Flask, Flutter, React
- **Database & Cloud:** SQL, NoSQL, Google Cloud, Firebase
- **Tools and Technologies:** Git, Linux, Docker, ROS, CAD, PCB Designing, 3D Printing, IoT
- **Software:** KiCAD, FreeCAD, Blender, Canva, Figma
- **Hardware:** Arduino, Raspberry Pi, Pixhawk, ArduPilot, Nvidia Jetson, NodeMCU
- **Soft Skills:** Leadership, Critical Thinking, Public Speaking, Conflict Resolution, Networking, Time Management

PROJECTS

- Autonomous Surface Vehicle – *Nvidia Jetson, Pixhawk, ArduPilot*
- Precision Docking for Autonomous Surface Vehicle – *OpenCV, Python, ROS, Gazebo*
- Autonomous Self-Driving Robot – *OpenCV, Python, Raspberry Pi*
- IoT based Smart Farming System – *NodeMCU, Arduino, PCB Designing*
- Autonomous Aerial Vehicle – *Pixhawk, ArduPilot, Raspberry Pi, Python*
- IoT based Smart Energy Management System – *NodeMCU, Arduino, PCB Designing*

- Multi-Functional Arduino Robot – *Arduino, PCB Designing*
- Land Classification and Change Detection – *Python, Google Earth Engine*
- Energy Efficient Path Planning for UAVs – *Pixhawk, ROS, Python*
- Blind Navigation Bot – *Arduino, PCB Designing*
- Computer Vision controlled Robotic Hand – *OpenCV, Python, Arduino*

AWARDS & ACHIEVEMENTS

- Finalist at Google Cloud Agentic AI Hackathon 2025.
- Ranked 2nd in Batch during B.Tech in Engineering Physics & Computer Science.
- Best Student Endowment Award during High School Senior Year – 2020.
- Director Prize in Senior Category at Agni's Ignite India Innovation Conference – 2017.
- Second Prize in PRAYOGA'17 – State Level Science Project Exhibition.
- Second Prize in Tamil Nadu Science & Technology Centre – Inter-School Science Project Exhibition.
- Young Scientist Award and First Prize in UNLEASH'16 National Level Innovation Contest.

CERTIFICATIONS

- Machine Learning & Deep Learning for Remote Sensing – *Indian Space Research Organization (ISRO)*
- Google Digital Marketing & E-commerce – *Google*
- Quantum Computing & Programming Diploma - *Qiskit and QWorld*

LANGUAGES

- English – *Native or Bilingual Proficiency*
- Hindi – *Native or Bilingual Proficiency*
- Tamil – *Native or Bilingual Proficiency*