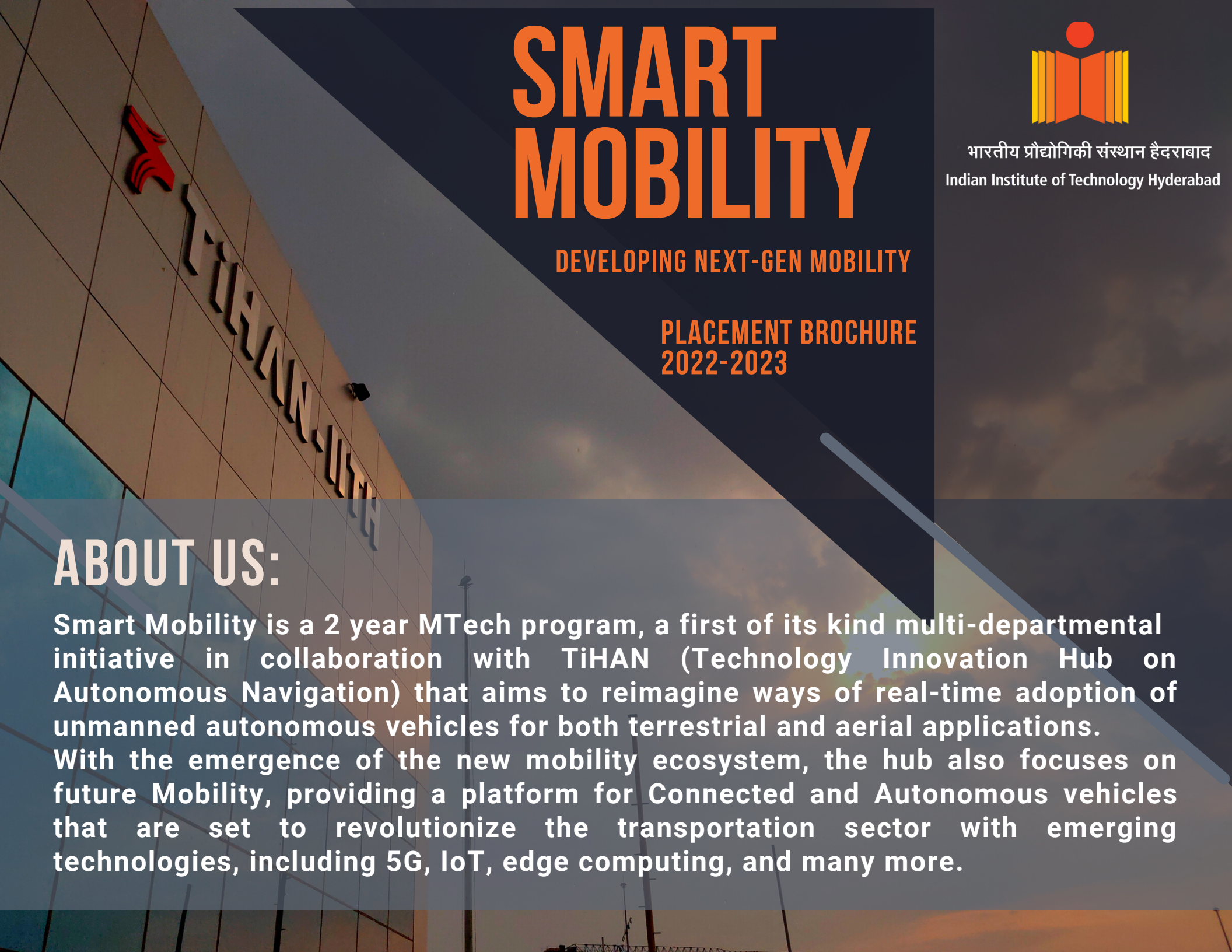


SMART MOBILITY

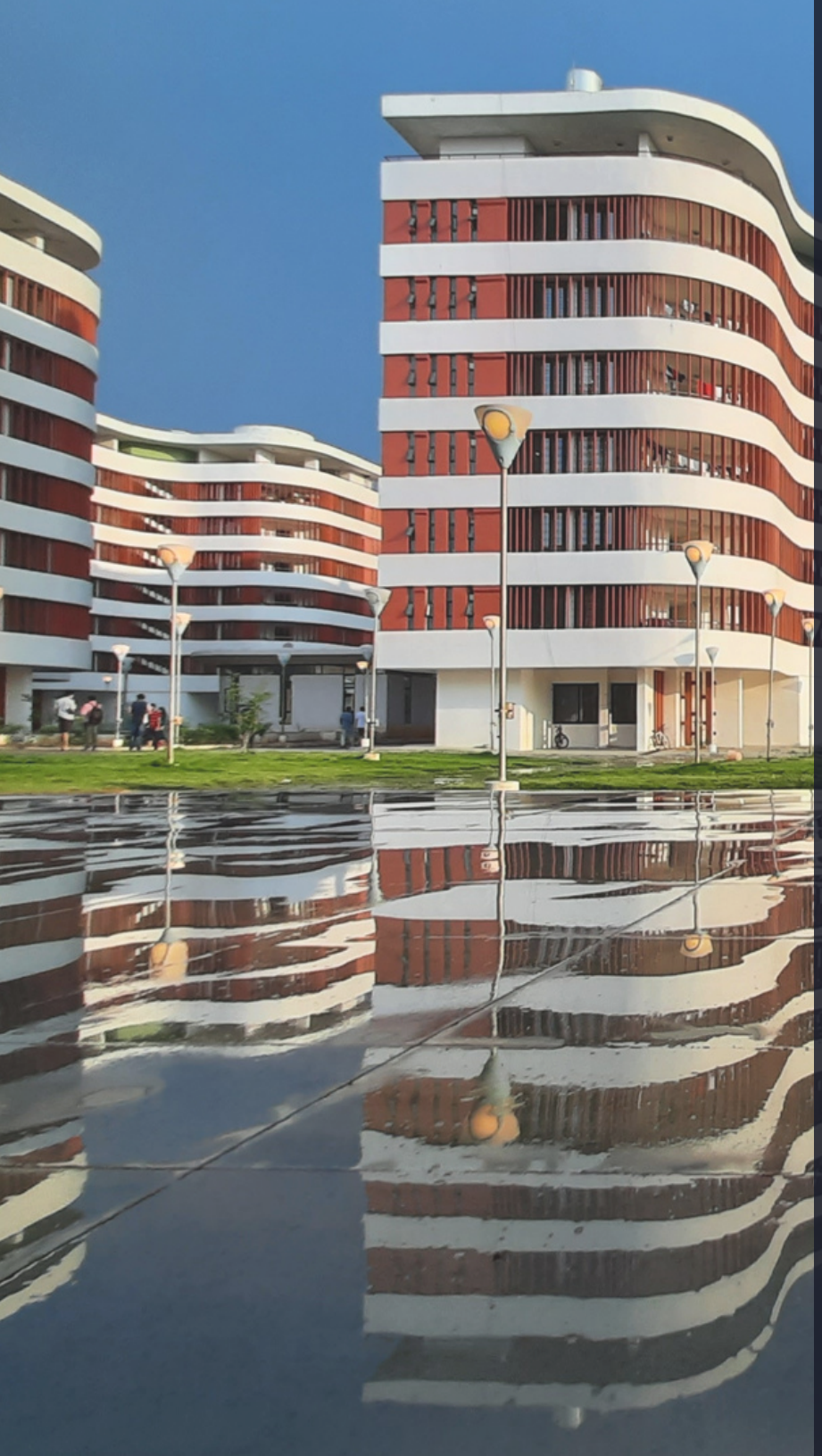
DEVELOPING NEXT-GEN MOBILITY

PLACEMENT BROCHURE
2022-2023

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

ABOUT US:

Smart Mobility is a 2 year MTech program, a first of its kind multi-departmental initiative in collaboration with TiHAN (Technology Innovation Hub on Autonomous Navigation) that aims to reimagine ways of real-time adoption of unmanned autonomous vehicles for both terrestrial and aerial applications.
With the emergence of the new mobility ecosystem, the hub also focuses on future Mobility, providing a platform for Connected and Autonomous vehicles that are set to revolutionize the transportation sector with emerging technologies, including 5G, IoT, edge computing, and many more.



WHY TO HIRE FROM SMART MOBILITY?

FOCUS AREAS

- Software Development
- ML, Deep Learning, and Computer Vision
- Handling Visual Perception Tasks for AVs
- Sensor Fusion for AVs
- Deployment of Deep Learning models on hardware like Nvidia Pegasus and dSPACE MicroAutobox (Drive By Wire)
- Motion Planning for AVs
- ADAS(Advanced Driver Assistance Systems)
- V2X in Communication and Network security
- Robot Operating System (ROS) .

INTERDISCIPLINARY

Mixed package of the best freshers & experienced students from various streams, including CSE, EE, ECE, IN, IT, ME, and CE.

PRACTICAL ASPECT

The curriculum is designed to provide thorough training in theoretical foundations and practical aspects.

RESEARCH FACILITIES AND LABS:

- TiHAN Testbed
- NVIDIA AI Technology Center (NVAITC)
- Visual Learning and Intelligence Lab (VIGIL)
- Wireless Networks Lab (WiNet)
- Lab for Video and Image Analysis (LFOVIA)

COURSES OFFERED:

- Basics of Programming
- Foundations of Machine Learning
- Advanced Data Structures and Algorithms
- Advanced Computer Networks
- Internet of Things
- Deep Learning
- Visual Computing
- Linear Optimization
- Autonomous Navigation
- Sensing and Planning for Autonomous Vehicles
- Random Variables and Stochastic Processes
- Introduction to UAVs
- Intelligent Transportation Systems

SMART MOBILITY-21

Lakshmi Gayathri Gudipudi

Multi Object Tracking for AVs

Mathigetta Sarvani

Autonomous UGV and UAV

Prakriti Sahu

Modeling QoE (Quality of Experience) of using Voice Assistants

Shridharam Tiwari

Multiple Object Tracking for Path Planning in real-time.

HN Srikanth

Real-time Pothole detection based on Deep learning

Billakurthi Shai Sasi Deep

Reinforcement Learning for AVs

Nisarg Parekh

UAV Resource Monitoring

Prasanna Kumar R

Monocular 3D Object Detection

Shubham Dangat

Navigation of Mobile Robots and Drones

Gaurav Kumar Gautam

Prediction of steering angle of AVs

Soham Bhatt

Image Captioning using Deep Learning

Rishabh Bhardwaj

Pedestrian Motion Prediction for AVs

Akash Subhash Kamble

Bayesian Deep Learning and Active Learning for Object Detection

Jaydeep Singh Chouhan

Object Detection using Continual Learning and Adaptive Transformer

Sahin Hossain Chowdhury

Monocular Depth Prediction using Self Supervised Learning

Ravi Kumar

Federated learning for AVs

Deevanshu Gupta

Path Planning, Navigation and Control for AVs

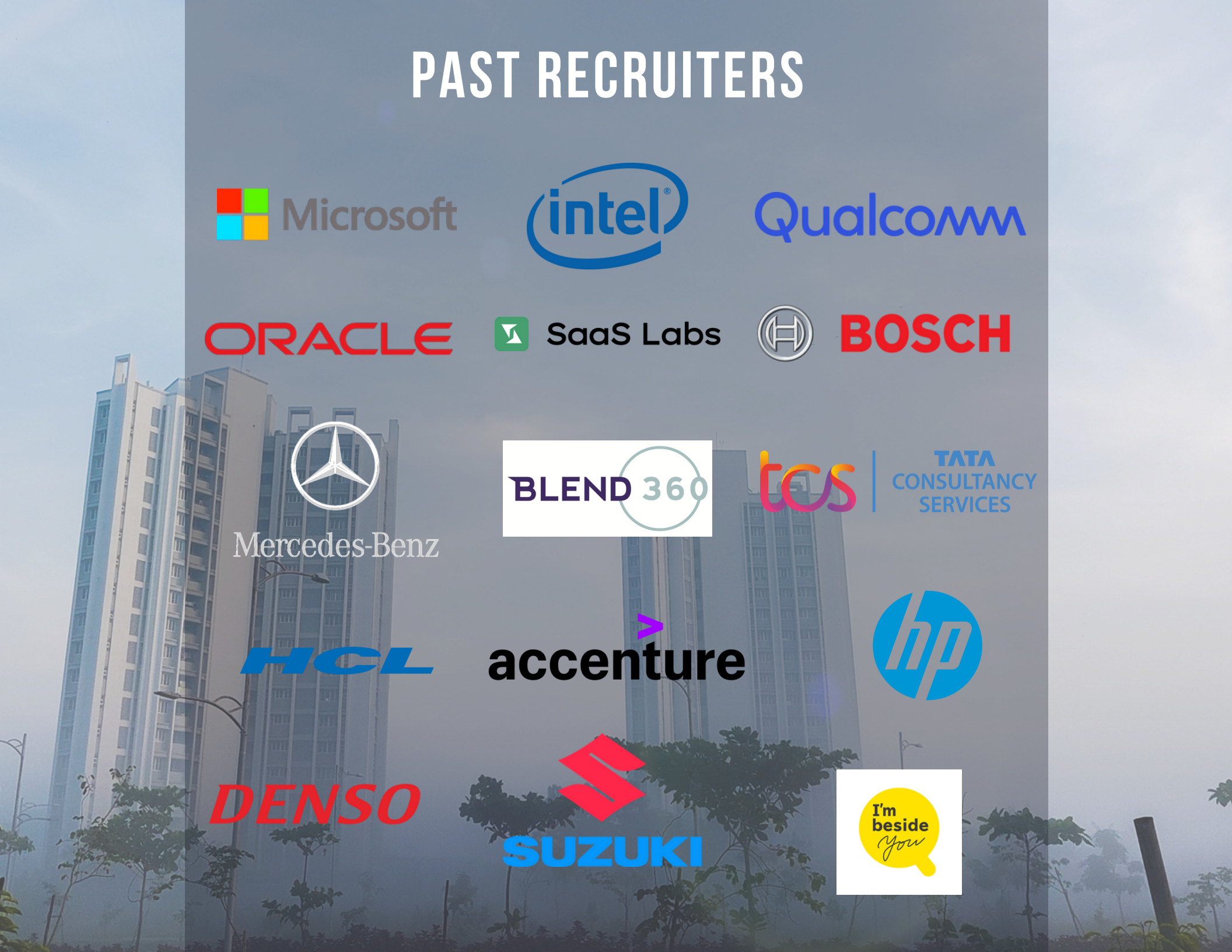
Anish Antony

Autonomous Navigation System for a Delivery Drone

Rahul Bingumalla

V2X Communication

PAST RECRUITERS



COLLABORATORS

FACULTY

Faculty from various departments such as Computer Science, Artificial Intelligence, Electrical, Mechanical, and Civil Engineering are working together to advance next-generation mobility. Their research areas include the development of 5G and V2X communication, Edge and Cloud Computing infrastructure, Artificial Intelligence, Autonomous Navigation in UAVs and UGVs, and Intelligent Transportation Systems with the goal of developing smart and sustainable cities.


Dr. P. RAJALAKSHMI


Dr. Srikanth Saripalli


Dr. C. Krishna Mohan


Dr. Sumohana S Channappayya


Dr. Vineeth N Balasubramanian


Dr. Antony Franklin


Dr. Bheemarjuna Reddy Tamma


Dr. Praveen Tammana


Dr. Srijith P.K


Dr. Maunendra Sankar Desarkar


Dr. Digvijay S. Pawar


Dr. Abhinav Kumar


Dr. Shashank Vatedka


Dr. Sobhan Babu


Dr. G V V Sharma


Dr. Sundaram Vanka


Dr. Prasanth Kumar R.


Dr. Ashok Kumar Pandey.


Dr. Venkatesham B.

PLACEMENT TEAM

Kindly register through our Office of Career Services (OCS) Portal. For further information, please refer to IITH's Placement Brochure https://ocs.iith.ac.in/. The OCS Placement team will extend all the possible assistance to your organization in conducting the recruitment process.

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TIHAN

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