

NITK students stand second at int'l programming contest

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Mangaluru: A team of undergraduate students from the department of electronics and communication engineering (ECE) at the National Institute of Technology Karnataka (NITK) Surathkal secured the second place (Gekirei-sho: Encouragement Award) in the RTOS Application Category at the TRON Programming Contest 2025 in Tokyo, Japan, recently.

The students, Aayush Srinivasan, Adithya A and Asrith Singampalli, along with Adarsh A from IIT Hyderabad won second place.

The TRON Programming Contest is an international competition organised by the TRON Forum, Japan, and co-sponsored by the IEEE Consumer Technology Society, focu-



PROUD MOMENT: Team of UG students from the dept of ECE at NITK who stood 2nd in Tokyo

sing on high-performance Real-Time Operating Systems (RTOS), embedded computing, and Edge AI.

The contest brings together university and industry teams to develop solutions for complex computing challenges on standardised embedded platforms.

Competing under the team name 'VISION' (Visual Inertial System Integrating On-bo-

ard Navigation), the students presented a project titled 'Visual Inertial SLAM', addressing cost and computational constraints in modern robotics navigation.

The team developed an Edge AI-based approach to generate synthetic depth data using cameras and sensors, reducing dependence on expensive and bulky LIDAR hardware. By fusing visual inputs with motion sensor data, the system enables high-precision mapping and navigation on compact, affordable, resource-constrained embedded devices. The international jury cited the project's technical complexity and its successful implementation of computationally intensive algorithms on embedded hardware with limited resources..