



Students of NITK Surathkal after securing second place encouragement award in the RTOS application category at the TRON Programming Contest 2025 in Tokyo, Japan | EXPRESS

# NITK students secure 2nd place at TRON Contest 2025

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A TEAM of undergraduate students from the Department of Electronics and Communication Engineering (ECE), National Institute of Technology Karnataka (NITK) Surathkal -- Aayush Srinivasan, Adithya A, and Asrith Singampalli along with Adarsh A from IIT Hyderabad, has achieved international recognition by securing 2nd place in Gekirei - Sho encouragement award in the RTOS Application Category at the prestigious TRON Programming Contest 2025 held in Tokyo, Japan on December 11.

The TRON Programming Contest is a global competition organised by the TRON Forum, Japan, and co-sponsored by the IEEE Consumer Technology Society. It focuses on the development of high-performance Real-Time Operating Systems

(RTOS), embedded computing, and Edge AI solutions. The contest invites top technical teams from universities and industries worldwide to solve complex computing challenges on standardized embedded platforms.

The project was called as Visual Inertial SLAM which was named VISION (Visual Inertial System Integrating On-board Navigation). Instead of relying on expensive and bulky LIDAR sensors, the team engineered a smart solution using Edge AI that generates synthetic depth data using just cameras and sensors. By fusing this visual data with motion sensors, they created a high-precision navigation system that allows robots to see and map their surroundings using affordable, compact hardware proving that you don't need costly equipment to achieve cutting-edge results.