

FollineBoat-2022 - Line Follower Robotic Event

Date: March 4 and 21, 2022

Participants: 6th Semester Computer Engineering Branch Students

Saffrony Institute of Technology, in collaboration with the Degree Courses, organized a Line Follower Robotic Event - FollineBoat-2022 for 6th Semester Computer Engineering branch students. This event served as an experimental and practical learning experience, integrated into the subject Internet of Things for the 6th Semester Computer Branch.

Event Phases:

1. Learning Phase: The first phase of the event focused on the learning aspect, where students gained fundamental concepts of building robots. Hands-on practices were an integral part of this phase, allowing students to grasp theoretical knowledge and apply it practically.

2. Execution Phase: The second phase involved the execution of the concepts learned during the learning phase. Students successfully implemented various robotic concepts, showcasing their understanding and skills in the field.

Objectives:

The main objectives behind organizing this competition were:

- Boosting practical expertise among students.
- Providing a platform for experiential learning.
- Developing skills such as problem-solving, teamwork, and project management.
- Enhancing understanding of financial aspects related to robotics projects.

Learning Concepts:

During the event, students practically learned various concepts, including:

- Programming in Arduino.
- Architecture of Arduino.
- Interfacing of different sensors such as IR sensors and ultrasonic sensors with Arduino.
- Interfacing of different actuators such as servo motors and DC gear motors with Arduino.
- Speed control of DC motors using different motor drivers (L293D, L298N, motor driver shield).
- Power utilization from batteries.

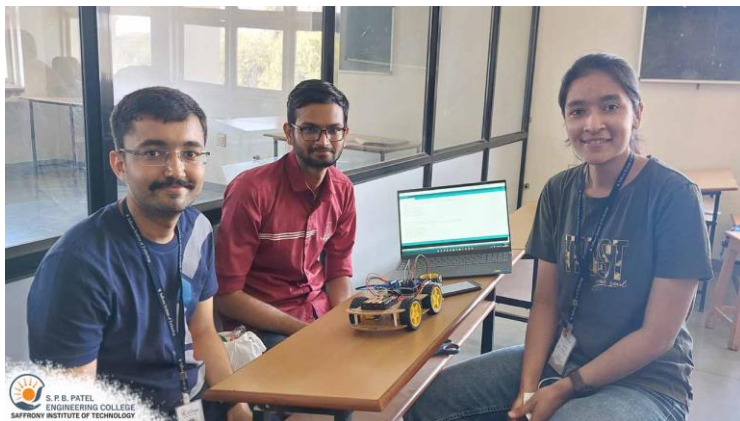
Student Participation:

Students participated in the event with enthusiasm, actively engaging in the learning and execution phases. The event provided them with an opportunity to acquire new skills and apply theoretical knowledge in a practical setting.

Conclusion:

The Line Follower Robotic Event - FollineBoat-2022 was a success, achieving its objectives of providing students with hands-on experience, fostering teamwork, and enhancing practical skills in the field of robotics. Saffrony Institute of Technology remains committed to organizing such events that contribute to the holistic development of students.

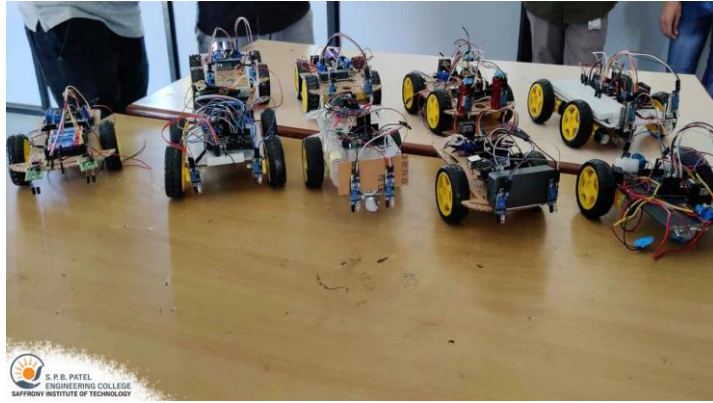
Glimpses of the event:



"Preparing Robots"



"Showing their products/robots"



"Final robots"