

Robocup Junior (up to Age-19 Robotics Competition)

## Won TOP Ranks!

1 \$ 1

and

2nd

## PLACE International Championship at Eindhoven in Netherlands.

To achieve these outstanding results, it requires more than just a preparation focused solely on competition. These students have built a solid foundation and applied their accumulated knowledge, developed since their early middle school years at Storming Robots.

While standing out in college applications is a significant short-term benefit, the true impact lies in the skills that will empower them to succeed in their college careers and beyond. These foundational skills are critical for long-term success in STEM fields and will continue to serve them well throughout their professional lives.

Scan to learn about the Teams



Scan to learn about Storming Robots



## 1St PLACE

Robotic Simulation League



STORMING ROBOTS



Andrew Dai Etaash M.V. Jain Jiachen Jiang Gr.10 Gr.11 Gr.10

niques involved:

Intensive algorithmic development, programming skills.

- ~ Graph traversal algorithms.
- Mapping Technique—exploring SLAM Technology
- Machine Learning
- ~ Computer Vision. C/C++/Python

eams are tasked to navigate complex mazes, utilizing a mix of technologies and strategic problemsolving, and identifying virtual victims on its way. Team needs to develop and refine that can accurately systems environments while simultaneously locating themselves within it—despite the absence of GPS data.

ost challenging key
component— the application
of SLAM (Simultaneous
Localization and Asynchronized
Mapping) - a critical research area in Al
and mapping.

## 2nd PLACE

Robotic OnStage League



Aditi Gopalakrishnan Gr.10 Julia Chan, Gr.9

Maya Baireddy Gr.9

Techniques involved:

Creative Theme

Design / Planning

- Knowledge in variety of platforms,
   Arduino, Raspberry-Pl.
- Machine Learning
- ~ Computer Vision. C/C++/Python

heir project merged technology with the arts by developing a system that interprets American Sign Language (ASL) into music played on a piano through machine learning and robotic mechanisms.

tilizing the Random Forest Classifier algorithm for predictive accuracy, they trained a model to recognize ASL hand gestures captured by a camera. The data was transmitted via a Raspberry Pi, which acted as the controller to orchestrate the robot's custom-designed, 3D-printed robot "fingers" by the team.