



#25309

TALOS

FIRST
TECH
CHALLENGE

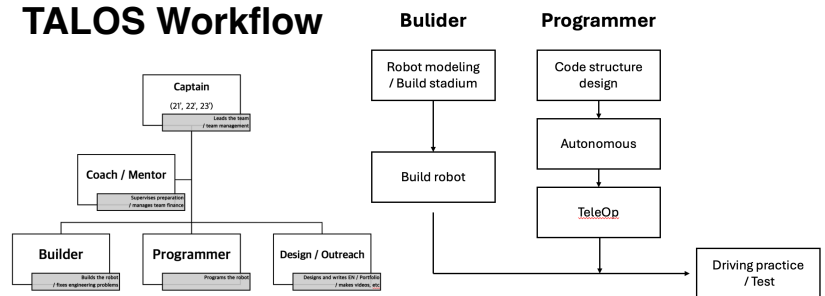
CENTERSTAGE

About Us

TALOS is a FTC team from the Republic of Korea. Our team is based in Korea Science Academy of KAIST, one of the most prestigious educational institute for gifted students.

We've been participating in Korea Robots Championship (KRC) since the 2018-19 season, and this is our first time participating in the World Championships.

TALOS Workflow



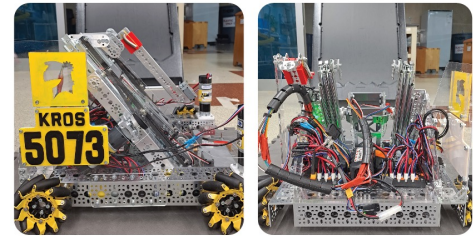
KRC Preparation / Result



We won four times at the Qualification Matches, thus taking the third place and continuing to the semifinals. We had the highest individual scores in each game.

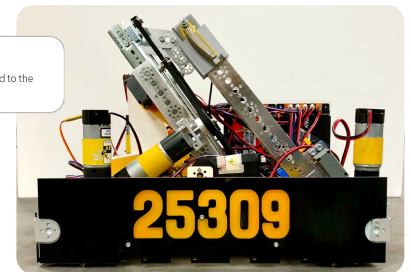
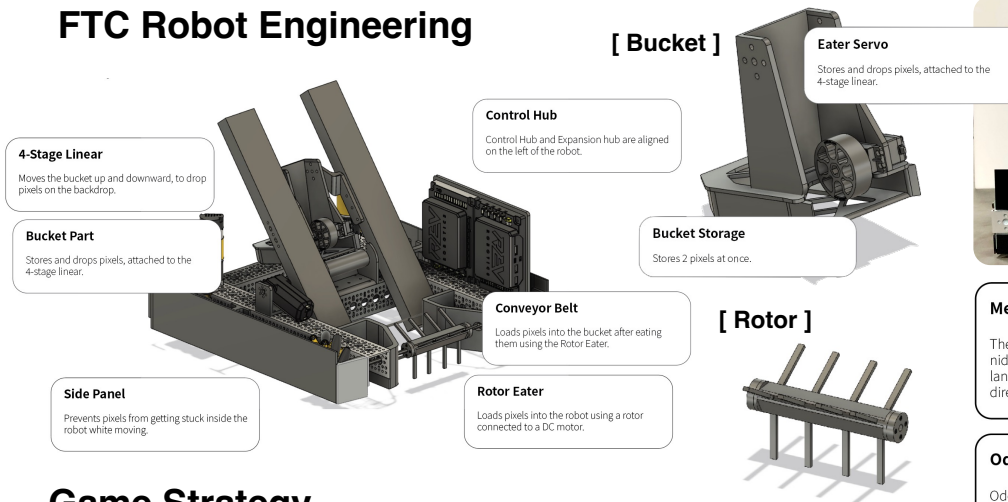
This year, we won the 1st Inspire Award at KRC. We also scored well with our individual robot, with our stable Autonomous Period and Endgame scores.

KRC Robot "Ui"



We used a pincer mechanism in our first robot, which we changed to rotor later.

FTC Robot Engineering



Mecanum Wheels

The mecanum wheel is an omni-directional wheel design for a land-based vehicle to move in any direction.



Odometry Wheels

Odometry is the use of data from motion sensors to estimate change in position over time, and is used for accurate movement of the robot.



Game Strategy

Autonomous

Our AutoOp reliably scores 50 points.

- 20 points : Object detection
- 20 points : Backdrop pixel
- 5 points : Parking

Driver Control

Prioritize making mosaics.

- Coordinate with alliance about:
- Breaking the pixel stack
- Robot movement around court

Endgame

We can stably score 50 points in Endgame.

- 30 points : Drone
- 20 points : Hanging

Linear is strong enough for rigging.



Connect with Us



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Team TALOS is a part of the robotics research group KROS at Korea Science Academy.



KAIST 한국과학기술원



Ministry of Science and ICT

