



МИНОБРНАУКИ
РОССИИ



IV КОНГРЕСС
МОЛОДЫХ
УЧЕНЫХ



PTK



КУБОК РТК
РОБОТТЕХНИЧЕСКИЕ
СОРЕВНОВАНИЯ

INTERNATIONAL YOUTH ROBOTICS COMPETITIONS RTC CUP



STATE RESEARCH CENTRE
OF THE RUSSIAN FEDERATION
CENTRAL RESEARCH AND
DEVELOPMENT INSTITUTE FOR
ROBOTICS AND TECHNICAL CYBERNETICS



МИНОБРНАУКИ
РОССИИ

MINISTRY OF SCIENCE AND
HIGHER EDUCATION
OF THE RUSSIAN FEDERATION



t.me/RTC_spb



rtc.ru

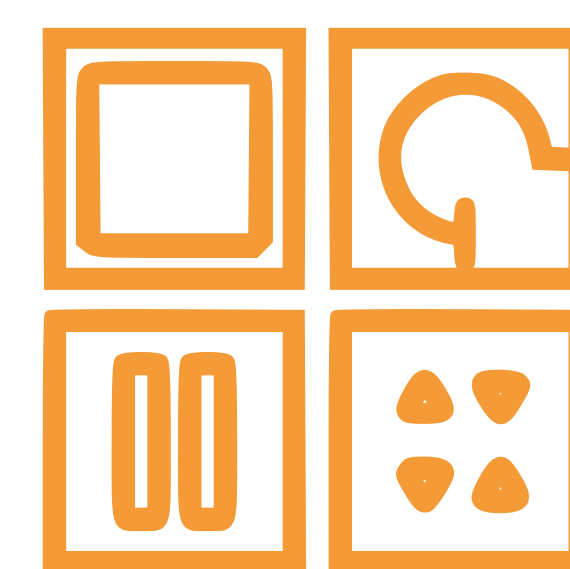


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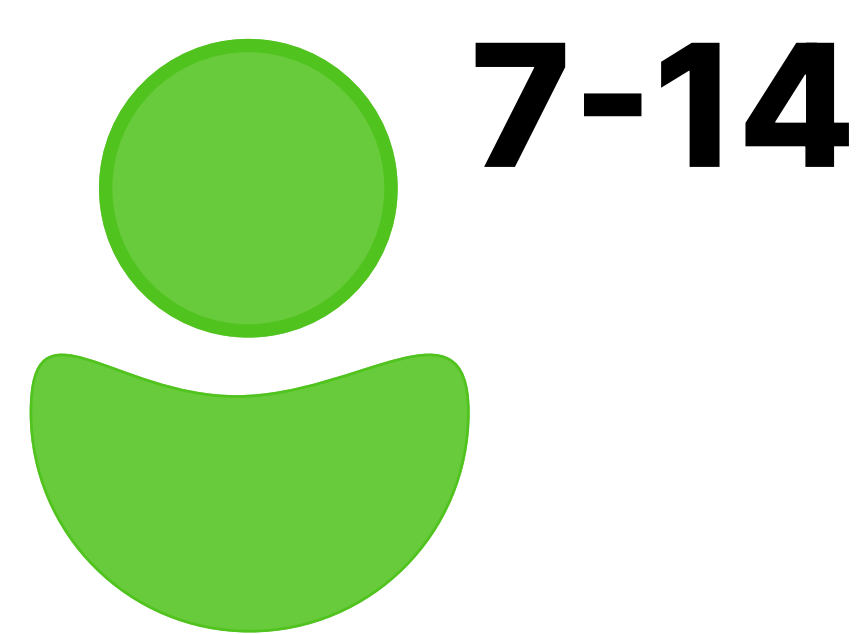
ROBOTICS COMPETITIONS

FOR YOUNG ENGINEERS, STUDENTS AND
SCHOOLCHILDREN WHO CREATE ROBOTIC
SYSTEMS FOR EXTREME CONDITIONS



OVER SIXTY CELLS

OF A RECONFIGURABLE TESTING
GROUND SIMULATING ROUGH
TERRAIN CONDITIONS AND THE
CONSEQUENCES OF DISASTERS



7-14

"SEEKER"

- ROBOT IS WITHIN THE OPERATOR'S LINE OF SIGHT
- OPERATOR OBSERVES THE ROBOT'S ACTIONS WITH HIS/HER OWN EYES



15-17

"EXTREME"

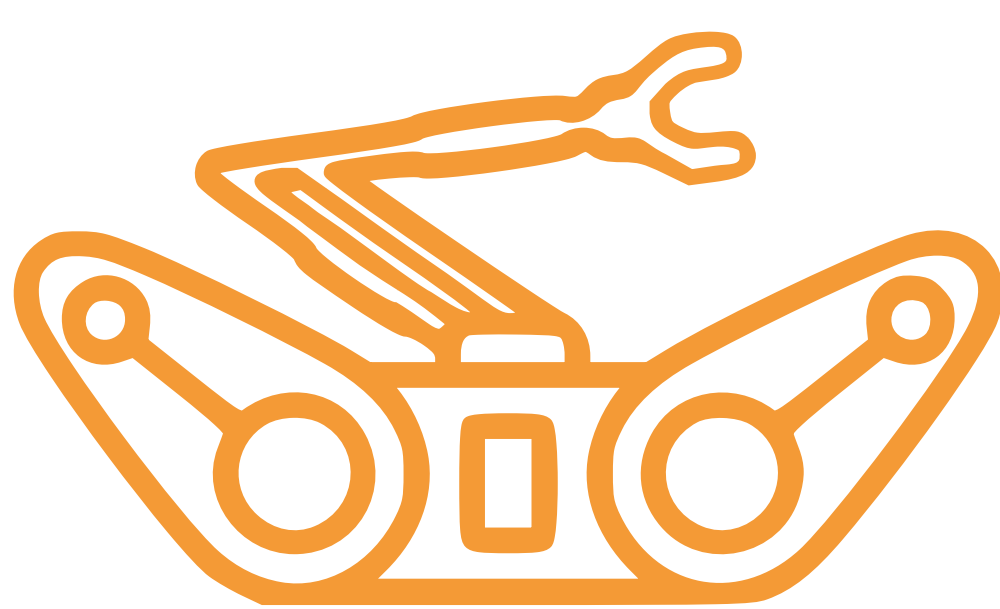
- ROBOT IS OUT OF THE OPERATOR'S LINE OF SIGHT
- REMOTE CONTROL USING THE ROBOT'S VIDEO VISION AND INSTRUMENTATION INSTALLED ON IT



17+

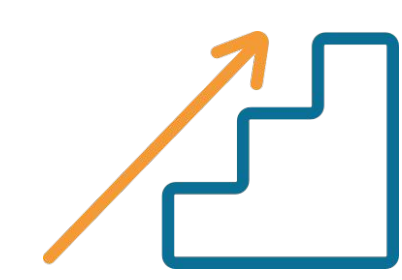
"EXTREME PRO"

- REMOTE CONTROL USING THE ROBOT'S VIDEO VISION AND INSTRUMENTATION INSTALLED ON IT
- TO COUNT AN ATTEMPT, THE COMPLETION OF AN AUTONOMOUS TASK MUST BE DEMONSTRATED

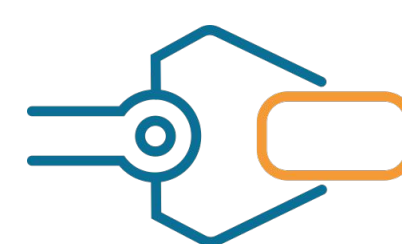


THE ROBOT MAY BE ASSEMBLED
USING ANY HARDWARE
COMPONENTS, WITHOUT
DESIGN LIMITATIONS

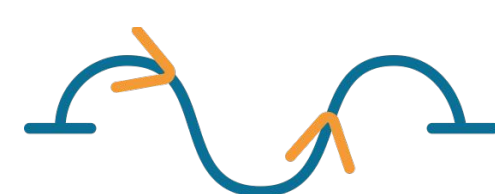
AT THE TESTING GROUND, THE ROBOT CAN DEMONSTRATE:



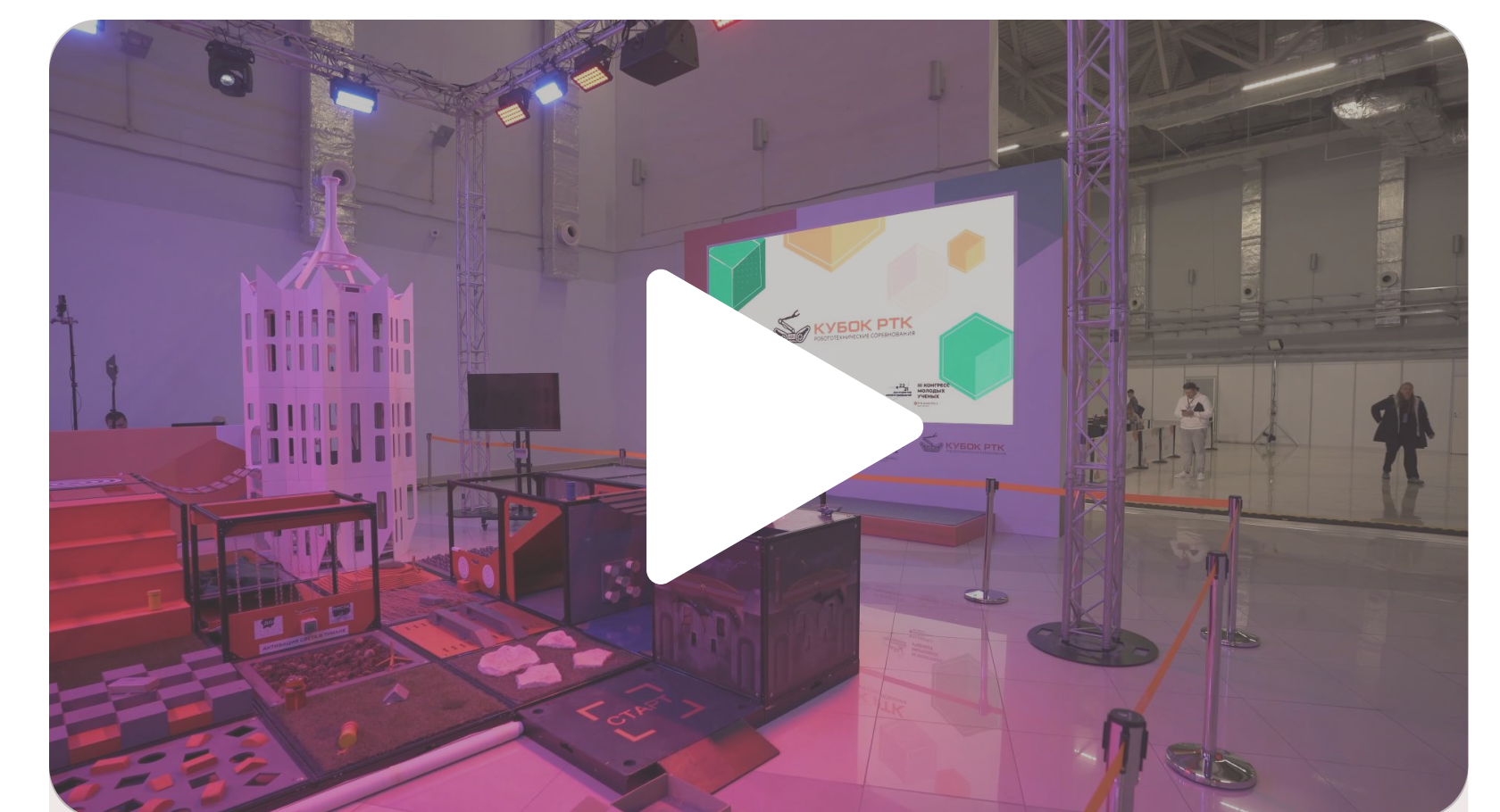
MANOEUVRABILITY



MANIPULATOR
OPERATION



ROBOT'S INDEPENDENCE



RTC CUP
2023 FINALS



TEAM REQUIREMENTS

- ROBOT CAN ONLY HAVE ONE OPERATOR DURING AN ATTEMPT.
- ONE COMPETITOR CAN ONLY BE ENGAGED BY ONE TEAM DURING ONE COMPETITION.
- IT IS ALLOWED TO REPLACE THE ROBOT OPERATOR BETWEEN ATTEMPTS (ROUNDS).
- A TEAM MAY SUBMIT ONLY ONE ROBOT AND ONLY IN ONE CATEGORY DURING THE CURRENT COMPETITION.
- THE AGE OF EACH TEAM MEMBER MUST MEET THE CATEGORY REQUIREMENTS.

AWARDS AND FINALS

- CERTIFICATES AND VALUABLE PRIZES;
- OPPORTUNITY TO ATTEND THE NATIONAL FINALS OF THE INTERNATIONAL YOUTH ROBOTICS COMPETITION RTC CUP;
- THE NATIONAL FINALS WILL BE HELD ON NOVEMBER 27-29, 2024 AS PART OF THE YOUNG SCIENTISTS CONGRESS IN THE SIRIUS SCIENCE AND ART PARK, SOCHI.



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