

STATUTE

Professional Skills Competition

MOBILE ROBOTICS

I. ORGANIZER

Mobile Robotics Professional Skills Competition is organised as part of the project "SkillsComp: skills competitions as an opportunity to develop vocational education and training" financed by the European Erasmus+ programme.

The SkillsComp project, implemented in an international partnership, aims to increase the quantity and quality of school-business partnerships through the organization of vocational skills competitions. The project focuses on vocational schools and technical schools as individual entities with the potential to plan and implement skills competitions. The project also promotes the international WorldSkills initiative, which demonstrates the importance of vocational skills and, most importantly, motivates young people to learn a profession and achieve excellence in their field.

Mobile robotics is a rapidly evolving, solutions-oriented industry in which robotics technicians play a significant and growing role. Mobile robotics is a crucial part of the future, with applications in everyday life across various industries, including autonomous vehicles, manufacturing, agriculture, aviation, mining, and medicine. Mobile robotics involves designing, building, and maintaining robots to solve problems in industries ranging from manufacturing to aerospace, mining to medicine. Mobile robots can also be designed to explore areas that are inaccessible or dangerous for humans.

MOBILE ROBOTICS Professional Skills Competition, responsible for the organization and substantive level of the Competition, is:

Łukasiewicz Research Network – Institute of Exploitation Technology

Kazimierza Pułaskiego 6/10, 26-600 Radom

Organizer's Representative:

Margaret Kowalska

tel. 48 364 92 06

malgorzata.kowalska@itee.lukasiewicz.gov.pl

II. PARTNER

MOBILE ROBOTICS Professional Skills Competition is:

Beckhoff Automation Sp. z o. o.

Ruczajowa Street 15

05-500 Piaseczno

III. GENERAL PROVISIONS

Mobile Robotics Vocational Skills Competition is a competition for young automation, electronics, and mechatronics engineers, automation technicians, electronics technicians, mechatronics technicians, and robotics technicians from across Poland. The competition is based on the international EuroSkills and WorldSkills competitions, which promote practical vocational training and collaboration with entrepreneurs. The competition is a one-person competition for Polish students and offers the opportunity to qualify for the WorldSkills Poland team and participate in the EuroSkills Herning 2025 Mobile Robotics competition.

MOBILE ROBOTICS Competition regulates the rules and conditions of participation and is binding on the Organizer and participants.

Only those who meet the requirements outlined in these Rules and Regulations are eligible to participate in the competition. The competition is open to the territory of Poland.

The Organizer appoints a Competition Jury, composed of Experts who serve as Judges. The Jury serves as an advisory body to the Organizer.

The regulations are valid from the date of announcement until further notice.

The Organizer and other entities cooperating with it in organizing the Competition are not responsible for errors and omissions of third parties or any resulting delays or irregularities in the course of the Competition.

Participation in the Competition is voluntary.

All descriptions of the Competition used in advertising and promotional materials are for general informational purposes only. Only these Rules and Regulations, in their entirety, are binding.

The Organizer reserves the right to make changes to these Regulations without violating the basic principles of the Competition.

All matters not regulated by these Regulations shall be governed by the provisions of generally applicable Polish law.

The Organizer's representative provides additional information regarding the Regulations:

Małgorzata Kowalska, tel. 48 364 92 06

malgorzata.kowalska@itee.lukasiewicz.gov.pl

IV. OBJECTIVES AND THEMATIC SCOPE OF THE COMPETITION

The aim of the Competition is:

- deepening professional knowledge related to the assembly, commissioning, and operation of robotic systems; operation and programming of robotic systems
- improving practical skills in the chosen profession of robotics technician,
- developing the ability to acquire knowledge independently,
- familiarization with current material and technological solutions in the field of robotics systems,
- creating opportunities to develop one's interests and talents,
- preparation for professional employment,

- Improving the forms and methods of creative work of teachers with young people.

The subject of the Competition covers practical and intellectual skills in the field of

- core curriculum for vocational education professions assigned to the electronics and mechatronics industry (ELM), specified in the classification of vocational education professions: automation engineer, electronics engineer, mechatronics engineer, automation technician, electronics technician, mechatronics technician, robotics technician
- specialized issues related to the assembly, commissioning, and operation of robotic systems; operation and programming of robotic systems
- general education subjects: mathematics, physics.

V. PARTICIPANTS

The competition is aimed at students of vocational schools assigned to the electronics and mechatronics industry (ELM) in the fields of education of automation, electronics, mechatronics, automation technician, electronics technician, mechatronics technician, robotics technician, who are at least 20 years old on the day of the competition final.

The **MOBILE ROBOTICS** professional skills competition takes part in the competition individually.

VI. STAGES OF THE COMPETITION

Professional Skills Competition **MOBILE ROBOTICS** consists of three stages:

Stage I: Online registration for participation

The registration for participation in the Competition takes place at <https://skillscomp.itee.radom.pl/>

Each school/institution may nominate a maximum of one candidate.

Schools conduct the qualifying rounds independently.

Applications must be submitted by December 15, 2023.

By submitting their application, the applicant accepts these Rules and Regulations and declares their attendance at the Finals and the team-building event on the date designated by the Organizer. Competition participants and their guardians are required to provide the Organizer with their personal information via the application form:

- name and address of the school
- participant details (name, date of birth, telephone number, email)
- guardian's details (name, phone number, email)

The application form must be completed in full, including all data, information, and attachments required by the Organizer.

Stage II Semi-final

At this stage, the participant is obliged to complete and document the semi-final task indicated by the Organizer. **February 2, 2024**

The task will involve developing software in Python that implements the functions specified in the task. The semi-final tasks will be assessed by a panel of experts appointed by the Competition Organizer.

The full text of the task will be sent only to registered participants via email. The evaluation criteria will be made available along with the task text. In addition to the effectiveness of the implementation of the assigned functions, the criteria will include code cleanliness, program organization, and the method of preparing the results.

Please send the completed semi-final task along with attachments to:
werskills@gmail.com

Select **five** finalists from among the submitted works. The list of finalists will be announced by **March 1, 2024**.

The decisions of the judging panel are final and binding on the participants. Dependent work will be disqualified.

Stage III Final

The duration of the Final is 2 days of the main competition and one day dedicated to preparatory activities and an integration meeting.

The final will take place on April 10-12, 2024.

A maximum of five participants, selected in Stage II, may compete in the Final. A preliminary version of the Finals schedule is included in Appendix 4.

The competition entries will be assessed by a three-person panel of experts appointed by the Competition Organizer, using the evaluation sheet provided on the day of the finals. The decisions of the panel of judges are final and binding on the participants.

Victory is determined by the total number of points (maximum 100 points) for completing the competition task. The jury evaluates the number and accuracy of completed tasks, as well as the time taken to complete them.

All necessary information can be found at <https://skillscomp.itee.radom.pl/>

VII. AWARDS

The **MOBILE ROBOTICS** Professional Skills Competition will be announced after the Competition ends.

The prizes in the Competition are:

1. **Main prize: obtaining the title of "Best of the Best".** This is associated with the opportunity to qualify for the WorldSkills Poland team and participate in the EuroSkills Herning 2025 competition in Denmark. The winner will also receive a medal, a certificate of participation, and gifts.
2. **Second place prize:** medal, certificate of participation, gifts, and the title of first reserve for the EuroSkills Herning 2025 competition in Denmark;
3. **Prize for taking third place:** medal, certificate of participation, gifts, and the title of second reserve EuroSkills Herning 2025 in Denmark;

The Organizer and Partners may provide other, additional prizes for winners.

The prizes will be issued under the applicable provisions of the Personal Income Tax Act of 26 July 1991 (Journal of Laws of 2018, item 1509, consolidated text, as amended). According to art. 21 paragraph 1 item 68 of the Personal Income Tax Act of 26 July 1991 (i.e. Journal of Laws of 2021, item 1243), the value of winnings in competitions in the fields of science, culture, art, journalism and sport is free from income tax, if the one-time value of these winnings or prizes does not exceed PLN 2,000.

If the one-time value of the winnings in the Competition exceeds PLN 2,000 gross, the prizes awarded in the Competition will be subject to a flat-rate 10% income tax by art. 30 section 1 item 2 of the PIT Act, and each prize will be awarded an additional cash prize in the amount of 11.11% of the gross value of the prize (rounded to the nearest whole zloty). The additional cash prize will not be issued to the participant, but will be allocated in its entirety to the payment of flat-rate income tax, under the applicable provisions of the Personal Income Tax Act of 26 July 1991 (i.e., Journal of Laws of 2021, item 1243).

The Organizer hereby informs that by accepting the nomination and prizes, participants in the **Mobile Robotics Professional Skills Competition** consent to the publication, recording, reproduction, and public use of their image (including their name, place of residence, and school) without time or territorial restrictions in the advertising materials of the Organizer and entities collaborating with them or administering websites, social media

platforms such as Facebook, Twitter, etc., without additional compensation. Participants have the right to withdraw their consent, but this does not affect the lawfulness of processing based on consent prior to its withdrawal.

VIII. FINAL PROVISIONS

The regulations are valid from the date of announcement until further notice.

The Organizer reserves the right to cancel the Competition without giving reasons, as well as to cancel the Competition or modify its course and these Regulations at any time in the event of threats resulting from the epidemic, health situation, difficulties in access to car, air or pedestrian transport, restrictions resulting from decisions of state or local government authorities or decisions of other entities and institutions (including, in particular, sponsors).

The Organizer, partner, and other entities cooperating with it in the organization of the **MOBILE ROBOTICS Professional Skills Competition** are not responsible for errors and omissions of third parties or entities and any resulting delays or irregularities.

The decision of the Chapter is final and indisputable.

Participation in the **MOBILE ROBOTICS Professional Skills Competition** is voluntary.

All descriptions of the **Mobile Robotics Professional Skills Competition** used in advertising and promotional materials are for general informational purposes only. Only these Terms and Conditions, in their entirety, are binding.

Organizer:

- provides (two nights) accommodation for participants and guardians in a facility selected by the Organizer;

- covers the costs of meals for participants and guardians during the 2 days of the competition (2 breakfasts and 2 lunches)
- covers the cost of participation of participants and guardians in the integration meeting
- does not cover travel and local transport costs

IX. COPYRIGHT

Competition participants guarantee that they have the appropriate copyright and image rights to the submitted semi-final task documentation (film and photos), enabling their reproduction, distribution, and publication.

Participants assume full legal responsibility for their declaration. In the event of any claims from third parties, participants, upon notification by the Organizer, will immediately investigate the matter and will defend themselves against such claims at their own expense and risk. Furthermore, they will settle all valid claims, and if they are awarded against the Organizer, they will reimburse the entirety of the claims and all related expenses and fees, including legal fees and costs, as well as any other damages resulting from the third-party claims described above.

Upon qualifying for the finals of the **MOBILE ROBOTICS Professional Skills Competition, the Participants** transfer to the Organizer the copyrights to the submitted materials and the rights to disseminate the studies and materials, including, without territorial and time limits, the following fields of exploitation: recording, reproduction by any technique, introduction to the market, entering into computer memory, public performance and public reproduction, exhibition, display, rental, lease, broadcasting using wired or wireless vision or sound via a ground station, broadcasting via satellites, simultaneous and integral broadcasting of a work broadcast by another radio or television organization, publication and distribution via the Internet.

Participants authorize the Organizer, with the right to grant further authorizations, to use all materials provided by participants for the competition, in particular to store them in the memory of a computer or other device, to process the materials and to publish and disseminate them

in connection with the competition, in the period from receiving the nomination to the competition finals, until the last day of the month in which the competition takes place.

X. PERSONAL DATA PROCESSING

The controller of personal data processed in connection with the competition is the Organizer, i.e., the Łukasiewicz Research Network – Institute for Exploitation Technology, ul. Pułaskiego 6/10, 26-600 Radom, tel.: (48) 364-42-41, fax: (48) 364-47-60, e-mail address: Instytutu@itee.lukasiewicz.gov.pl. The data will be processed by the Organizer for the purpose and to the extent related to the organization, conduct, and settlement of the Competition under these Rules. Providing personal data is voluntary, but failure to provide it will prevent you from participating in or judging the Competition.

The Organizer has appointed a data protection officer who can be contacted at the following e-mail address: iodo@itee.lukasiewicz.gov.pl, tel. (48) 364-42-41, ext. 294.

The personal data of participants and judges will be processed under the conditions set out in Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons about the processing of personal data and the free movement of such data, and repealing Directive 95/46/EC (OJ L 119, 4.5.2016, p. 1–88, GDPR), Polish regulations adopted to enable the application of GDPR, other applicable legal provisions and these Regulations.

Detailed information is included in Annex No. 7 to the Regulations (Information clause on data processing and use of image) and Annex No. 8 (Consent to use of image).

XI. ATTACHMENTS

APPENDIX 1 PARTICIPATION FORM

APPENDIX 2 SEMI-FINAL TASK available after registration

APPENDIX NO. 3 FINAL TASK (description, guidelines for participants, list of infrastructure provided by the Organizer and Partners, list of permitted tools that the participant may have with him/her) made available on the day of the final

APPENDIX 4 FINAL SCHEDULE preliminary version

APPENDIX NO. 5 EVALUATION SHEET made available on the day of the final

APPENDIX 6 JUDGES' CODE OF ETHICS

APPENDIX 7 INFORMATION CLAUSE ON DATA PROCESSING

APPENDIX 8 CONSENT TO USE THE IMAGE