WORLDSKILLS IN UNIVERSITIES
THE EXPERIENCE OF THE MOSCOW POLYTECH

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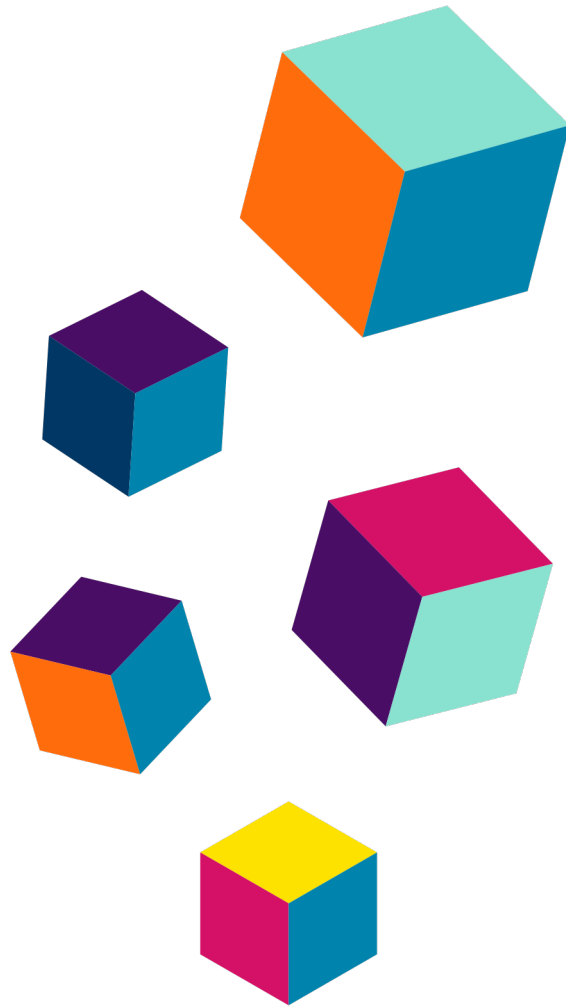**Moscow Polytechnic University**

world **skills**
Russia

МОЛОДЫЕ
2018
ПРОФЕССИОНАЛЫ

world **skills**

Moscow Polytech – new university, 150+ years old

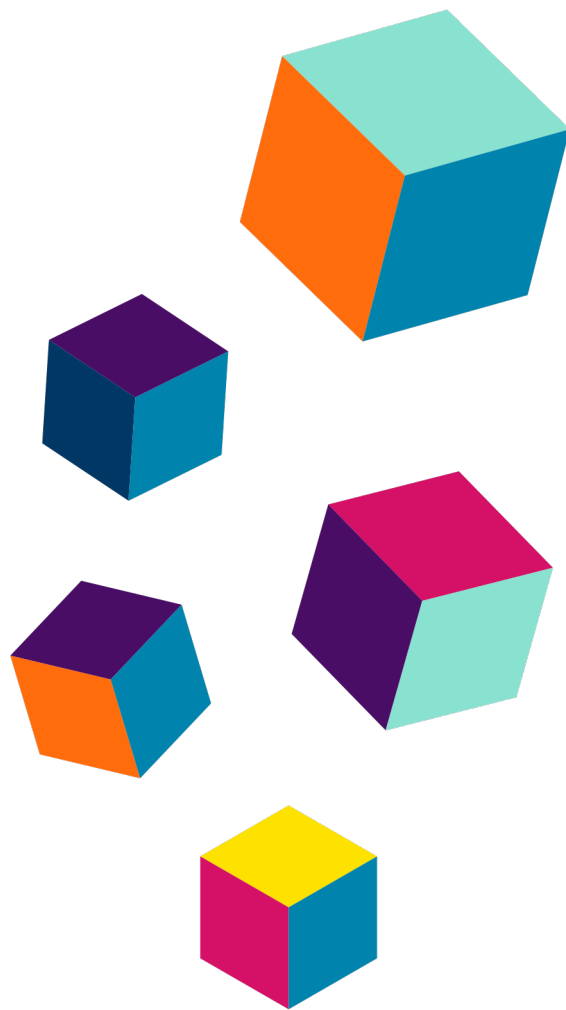| 1865 | Moscow State Technical University "MAMI" |
1930	Moscow State University of Printing Arts
1930	Moscow State Part-time Metallurgical University
1931	Moscow State University of Environmental Engineering
1932	Moscow State Open University
1959	Moscow State Industrial University
2012	Moscow State University of Mechanical Engineering
2017	Moscow Polytechnic University

2014 – UNIVERSITY JOINED WORLDSKILLS

University as a place for VET-graduates

- **30.10.2014 – 03.11.2014.** In the **WorldSkills Hi-Tech (**National Competitions) a freshman **Roman Kuzhel** scored **498 points**, took **2nd place** in the standings of educational institutions, 15 (out of 25) - in the overall standings.

- Roman is working on the project "**Investigation of welded structures using non-destructive testing methods**"

  Redesigning of educational programs and curriculum by using WorldSkills standards

- The first two bachelor programs have been updated based on the requirements of WorldSkills

- The concept of "**Using WorldSkills standards in the field of CAD curriculum design**" was presented as a joint project of a leading vendor and university at the international conference **Autodesk University**
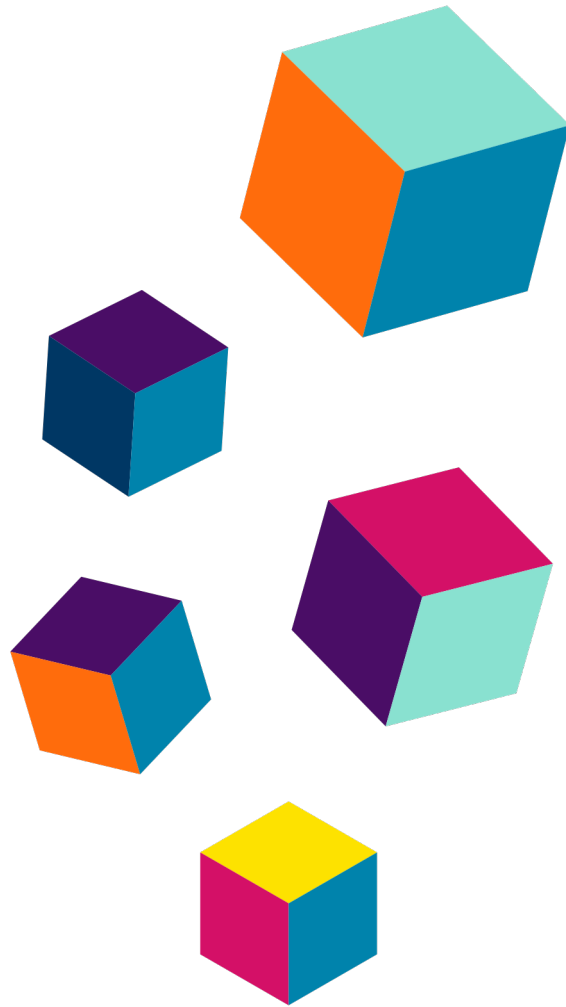
2015 - University as a leader in the WorldSkills Engineering Competences

- Dmitry Karasev is the winner of the III WorldSkills National Championship in Kazan in "Mechanical Engineering CAD"

- Dmitry Karasev and Ivan Hohlov ("Electronics") represented Russia at the WorldSkills competitions in San Paolo

- At the II National WorldSkills Hi-Tech competition Ilya Lavrenenko, master-student, demonstrates the best result in "Mechanical Engineering CAD" among representatives of United Shipbuilding Corporation (the largest shipbuilding company in Russia)

2015 - Exams based on WorldSkills ideas and rules

The Experimental Exam:

- Duration - 2 days for 6 hours with a break for lunch

- Tasks from WS Moscow and Great Britain competitions

- 90 first-year bachelor students

Advantages:

- Cheating does not help, because real skills are tested

- Complex verification of the skills in the field of Web-design

- 20% of students de facto confirmed the qualification of the «Web-designer/developer»

From exams to new industrial certification

National skill "IT solutions for business on the platform" 1C: Enterprise 8" (1C – the biggest Russian vendor)

Stage 1. "Distrust, doubt, persuasion to try" (02.2015))

Stage 2. "It is interesting, unexpected..." (03-05.16)

▪The solution to the WS task is very different from the approaches to industrial certification - Certified specialists gave way to uncertified

▪ Using "1C" platform does not differ from other platforms.

Stage 3. "These guys are real professionals" (2016-2017)

▪"We are ready to take all the finalists to work .."

▪ DigitalSkills - the championship among IT companies, confident leadership of 1C-technologies in the "battle" with other platforms

Stage 4. WorldSkills Technologies - Standard Practice (2018+)

▪1C officially recognizes the results of demo tests

▪1C introduces new industrial certification "1C: Junior" based on WorldSkills standards
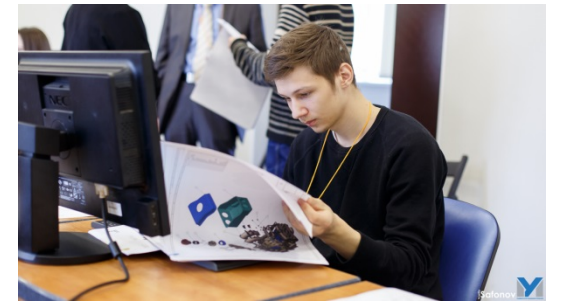
2016 – First WorldSkills Russia University League

29.03.2016 - 02.04.2016

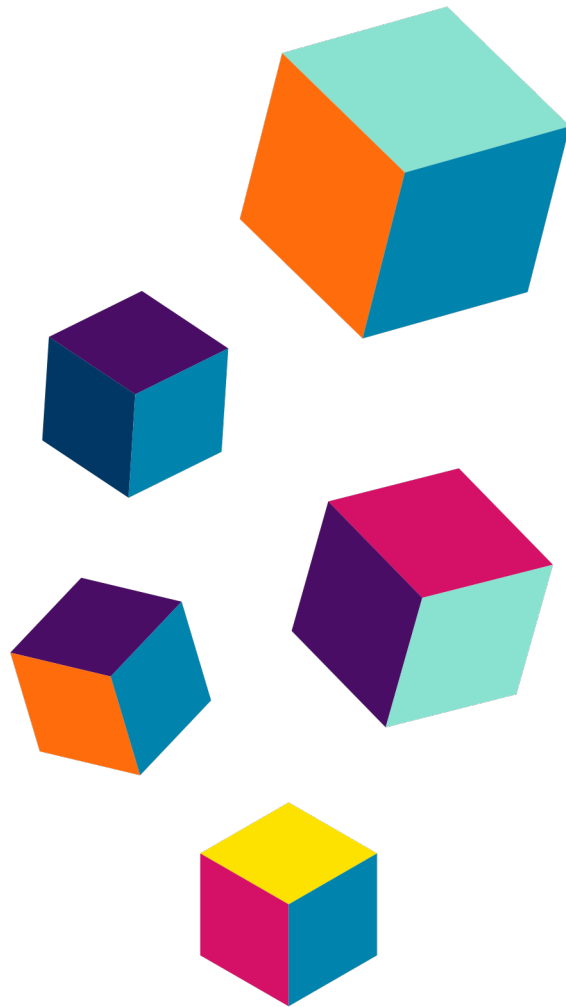**All-Russian WorldSkills Russia interuniversity competitions**

20+ universities, 12 high-tech skills, including reverse engineering, prototyping, mobile robotics, as well as the Internet of things.

▪ The winner in the competence of "IT solutions for business" - Anna Derbeneva , enlisted in the National team, Gold Medalist in Abu-Dhabi 2017

▪ Alexander Khutornoy , competence of "Mechanical Engineering CAD" - the best result, enlisted in the National team, represented Russia at EuroSkills 2016

2017/18 – System work with WorldSkills ecosystem

- The final of the fifth WoldSkills Russia competition - gold in "Web Design and Development", silver - "IT solutions for business on the platform 1C: Enterprise 8"

- Organization of training camps for various skills and the place of study for members of the Russian national team

- Open tournament on industrial Internet, corporate championship of RosElectronics and other events

- The leading platform of the Base Center (WorldSkills Academy) in the skills of "Mechanical Engineering CAD", "Web Design and Development", "IT solutions for business on the platform 1C: Enterprise 8"

- Helps to launch the industry championship in the field of information technology DigitalSkills

- Development of FutureSkills: "Analysis of the security of information systems from external threats" in cooperation with Kaspersky Lab

Thank you!