



Competition Report

Universal Robotics Challenge 2023 Executive Committee

January 2024

Overview

Title:	Universal Robotics Challenge 2023
Summary:	An international competition using ArtecRobo robotics kits
Purpose:	Solve various challenges and deepen children's interest in the field of robotics
Dates:	Online preliminaries with in-person finals
Idea Contest:	October 30, 2023
Real Robotics Preliminaries:	July 7-25, 2023
World Finals:	August 26, 2023
Virtual Robotics:	September 9 (Sat), 2022

Held by the Universal Robotics Challenge 2023 Executive Committee

Sponsors:	Xob Co., Ltd., Ishida Co. Ltd., ELECOM Co., Ltd., Otsuka Corporation, Kamigumi Co., Ltd., Kyohritsu Electronic Industry Co., Zetta Linx Inc., Sony Global Education, Turner Colour Works Ltd., Daiichijushi Industry Co., Ltd., Tocho Printing Co., Ltd., Japan AI Consultant, Pentel Co., Ltd.
Media Sponsors:	Seibundo Shinkosha, GMO Media Inc., BSC International
Special Thanks To:	Gakken Method Co., Ltd.
Planning:	Artec Co., Ltd. Universal Robotics Challenge Executive 2023 Committee

Competition Overview

Universal Robotics Challenge 2023 is a competition for elementary and middle schoolers, held both in-person and online. This year's competition was split into three divisions with a total of over 1,400 entries.

- In Real Robotics, children follow the rules of the competition as they compete for the high score.
- In Online Robotics, children use their ArtecRobo kit to build a robot for the competition theme and submit a video of it solving the challenge.
- In Virtual Robotics, children use an online robotics simulator to test their programming skills.

Real Robotics

Stacking Blocks

This competition marked the first in-person event in four years, starting with participants taking on the challenge of creating their own original robots before submitting them online.



Idea Contest

Fight for the Climate

In this division, competitors made their own original project before uploading a video of it to YouTube.



Virtual Robotics

Fight for the Climate

In this division, competitors used an online robotics simulator to test their programming skills.



Real Robotics

World Championship Results

Regular Division

1st

Mie, Japan (Grade 6)

Eishin-R

Rito

Jinya

Kenshin

Syun

Eishinkan Learning Center

2nd

Shizuoka, Japan (Grade 5)

Gyoshu RSI Starfish

Shoma Iwasaki

Itsuki Morioka

Rin Morioka

Sora Fuzawa

Rikuto Kanemoto

Katoh Gakuen Gyoshu Elementary ICT Club

3rd

Hong Kong (Grade 6)

Ka Hel Ip

Tsz Kit Ngan

Yat Sum Tam

Lok Lam Wong

Wing Ho Ng

S.K.H.Chu Oi Primary School (Lei Muk Shue)

1st

Mie, Japan (Grade 8, 9)

Eishin-A

Takehisa

Naoyuki

Syotaro

Eishinkan Learning Center

2nd

Mie, Japan (Grade 7, 8, 9)

Smile Terra Team

Tomoki Ohata

Takumi Matsumura

Hinata Inomata

Smile Computer School

3rd

Taiwan (Grade 7)

R-Express

Hong-Jin Chen

Taipei Private Dongshan Junior High School

Japan Qualifiers

Regular Division

1st

Mie, Japan (Grade 6)

Team Eishin-R

Rito

Jinya

Kenshin

Syun

Eishinkan Learning Center

Prizes

Tosho Card (provided by Otsuka Corporation)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Tosho Card (provided by Kamigumi Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

BON Order Book (provided by Tosho Printing Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Shizuoka, Japan (Grade 5)

Team: Gyoshu RSI Starfish

Shoma Iwasaki

Itsuki Morioka

Rin Morioka

Sora Fuzawa

Rikuto Kanemoto

Katoh Gakuen Gyoshu Elementary ICT Club

Prizes

Wonderkit PIN Code Relay 2 (provided by Kyohritsu Electronic Industry Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Five-Minute Logic Drills (provided by Sony Global Education)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

BON Order Book (provided by Tosho Printing Co., Ltd.)

Tosho Card (provided by Zetta Linx Inc.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Osaka, Japan

(Grade 6) TAKUMA & KUUYA

Takuma Ueno

Kuya Morii

FLASH Computer School

Prizes

Encyclopedia Projector (provided by Gakken Method Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Judge's Choice

Shiga, Japan

(Grade 5, 6) Kazuki and Yuto

Kazuki

Yuuto

Ikeda Kouondo City of Wind Learning Center

Prizes

Key Paletto Wired Keyboard (provided by ELECOM Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

1st

Mie, Japan (Grade 6)

Eishin- A

Takehisa

Naoyuki

Syotaro

Eishinkan Learning Center

Prizes

Tosho Card (provided by Daiichijushi Industry Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Mie, Japan (Grade 7, 8, 9)

Smile Terra Team

Tomoki Ohata

Takumi Matsumura

Hinata Inomata

Smile Computer School

Prizes

G-SHOCK (provided by Xob Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Kanagawa, Japan (Grade 6, 7)

PUSH and PUT

Sosuke Tamaoka

Shun Aoki

Fujisawa Computer Learning Center

Prizes

Five-Minute Logic Drills (provided by Sony Global Education)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Judge's Choice

Kanagawa, Japan

(Grade 8) Daily Report

Sakuya Mizunashi

Ko Sawada

Kawasaki Municipal Taira Junior High School Science Club

Prizes

Key Paletto Wired Keyboard (provided by ELECOM Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Idea Contest

World Championship Results

Junior Division

1st

Malaysia (Grade 2, 6, 5)

Smart Forest Fire Detection System (SFFDS)

FAIQAH HANNAN BINTI MUHAMOD FAHMIR

FARHAH HUMAIRA BINTI MUHAMOD FAHMIR

SITI NUR ALISHA BINTI AHMAD ISA

SK DATUK NAN KAYA

2nd

Hong Kong (Grade 2, 3, 4)

Let Go Green

Lee Man Yi

Wong Sze Man

Kwok Hiu Yeung Hayden

Leung Tsz Him

Wong Ching Yim

AD & FD OF POHL LEUNG SING TAK SCHOOL

3rd

Philippines

Plant Planting Robot

Michael Ryan Chong

Ember Prinze Wong

MGC New Life Christian Academy

Finalist

Hong Kong (Grade 3)

Smart Classroom

Chen Lianyu Lucas

Cheung Yan Yuk

Lam Chun Wai Milton

Mok Hing Yu

Tam Pak Yui

**Hong Kong Baptist University Affiliated School Wong Kam Fai Secondary
and Primary School**

Honorable Mention

Malaysia (Grade 5, 6)

MOVBOT

AHMAD HARIZ BIN AHMAD HAFIZ

ADDRIEL WAFEEQ BIN MUHAMAD ADLI SHAM

FARHAN RAYYAN ZIQRI BIN SYAMSULZAIDI

SEKOLAH KEBANGSAAN TAMAN SERI GOMBAK 2

Senior Division

1st

Taiwan (Grade 8)

Flame Guardian

Felipe Vicente

Pin-Chien Tseng

Kai-Feng Chen

Hong-Jin Chen

Taipei European School

Taipei Municipal Binjiang Experimental Junior High School

Taipei Municipal Dazhi High School

Taipei Private Dongshan Junior High School

2nd

Hong Kong (Grade 3)

Climate Action Innovation Competition

Hong Kong Workers' Brigade

Aberdeen Technical School

3rd

Malaysia

FG-008

MUHAMMAD AMMAR HAFIZ BIN AMIZAR

MUHAMMAD FIRDAUS BIN MOHD SAIDI

ADAM NAQIB BIN MD SETARIA

MED 3 SEKOLAH BINA INSAN YMSU

Finalist

Hong Kong (Grade 9)

Automatic Parallel Parker

Yeung Kwan Ming

Chan Pak Lam

Wong Kin Ming

3 HSKH Bishop Hall Secondary School

Honorable Mention

Philippines

Robo Paper Recycler

Anya Clarissa Legaspi

Riley Therese Abano

Sarah Sophia Cabodil

Alain Zachary Cabodil

De La Santiago Zobel - St. Mary's College QC

Japan Qualifiers

Junior Division

1st

Solar Panel Cleaner (for Elementary Schools)

Shiho Nakabayashi (Grade 4)

Pasocorp Karasuma Oike Learning Center

Prizes

Tosho Card (provided by Daiichijushi Industry Co., Ltd.)

Quo Card (provided by Japan AI Consulting)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Switch Off EV

Kaede Moriki

(Osaka, Grade 5)

Prizes

Tosho Card (provided by Ishida Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Tosho Card (provided by Otsuka Corporation)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Shadow-Shifting Tent

Sota (Grade 4)

Endo IT Training School

Prizes

Tosho Card (provided by Kamigumi Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Finalist

It's for the electricity bill, mom!

Masaki Owada (Grade 3)

Kiyoharahigashi Elementary School, Tochigi

Prizes

Key Paletto Wired Keyboard (provided by ELECOM Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Honorable Mention

Mangrove Planter

Kai Miyazaki (Grade 6)

COCON Maebashi Programming School

Prizes

Wonderkit PIN Code Relay 2 (provided by Kyohritsu Electronic Industry Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

1st

Aluminum and Steel Sorter

Taichi (Grade 2)

Osaka Minami-Senri Tutoring Center

Prizes

Quo Card (provided by Japan AI Consulting)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Tosho Card (provided by Otsuka Corporation)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Moving Walkways on the Highway

Yuki Miyajika (Grade 7)

Smile Computer School / Takatori Junior High School

Prizes

G-SHOCK (provided by Xob Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Tosho Card (provided by Otsuka Corporation)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Don't need it? Then toss it! Bot

Nanbu Kaneshiro (Grade 7)

Innovator Academy Takatsuki (Osaka Prefecture)

Prizes

Key Paletto Wired Keyboard (provided by ELECOM Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Tosho Card (provided by Zetta Linx Inc.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Finalist

Little Mr. AC Saver (Grade 7, 8, 9)

Mika Sakurai

Nao Hamada

Shinji Uenoyama

Yusei Takata

Akegawa Minami Junior High School Computer Club

Prizes

Key Paletto Wired Keyboard (provided by ELECOM Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Honorable Mention

Fight the Monsters and Save Our Trees!

Hayato Hirao (Grade 8)

Innovator Academy Takatsuki

Prizes

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Encyclopedia Projector (provided by Gakken Method Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Virtual Robotics

World Championship Results

Junior Division

1st

Malaysia (Grade 3)

FAQIF ARSYAD BIN MUHAMMAD FIKRI

SK TENGGU INDERA PETRA

2nd

Malaysia (Grade 3)

AHMAD HASIF BIN SUPARDI

SK SRI KIAMBANG

3rd

Japan (Grade 4)

Lover of Chestnuts

Human Academy Junior Robotics Classroom: Diologare Learning Center

Senior Division

1st

Malaysia (Grade 9)

ORHAN GHAZI BIN HAFIZULFAHMI

SM ISLAM AL-AMIN GOMBAK

2nd

Malaysia

CHARLES LOH HOWE WON (Grade 9)

SMK METHODIST SIBU

3rd

Japan

Koki Ishizawa (Grade 7)

Nagoya City Sakuragaoka Junior High

Japan Qualifiers

Junior Division

1st

Lover of Chestnuts (Grade 4)

Human Academy Junior Robotics Classroom: Diolagare Learning Center

Prizes

Quo Card (provided by Kunimatsu Co., Ltd.)

Quo Card (provided by Japan AI Consulting)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Keita (Grade 5)

Gakken Freewood Akiba Center / Beppu City Yamanote Elementary School

Prizes

Wonderkit PIN Code Relay 2 (provided by Kyohritsu Electronic Industry Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

BON Order Book (provided by Tosho Printing Co., Ltd.)

Tosho Card (provided by Zetta Linx Inc.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Kotaro Naka (Grade 5)

Smile Computer School / Yokosuka City Mabori Elementary School (Kanagawa Prefecture)

Prizes

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Encyclopedia Projector (provided by Gakken Method Co., Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

Senior Division

1st

Koki Ishizawa (Grade 7)

Nagoya City Sakuragaoka Junior High

Prizes

Quo Card (provided by Kunimatsu Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

2nd

Yasukou (Grade 8)

Smile Kids Programming School

Prizes

G-SHOCK (provided by Xob Co., Ltd.)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

3rd

Akiko Baba (Grade 9)

Miyagi University of Education Junior High School (Miyagi Prefecture)

Prizes

Five-Minute Logic Drills (provided by Sony Global Education)

Wooden Doorknob Plate Craft Kit (provided by Turner Colour Works Ltd.)

SMASH Mechanical Pencils (3 colors) (provided by Pentel Co., Ltd.)

Large notebook (provided by Kyowa Shiko Co., Ltd.)

From the Executive Committee

2023's Universal Robotics Challenge was held simultaneously online and in-person, and it wouldn't have been such a stunning success without the cooperation and hard work of numerous people.

We'd like to offer our heartfelt thanks for the help of all those involved as well as for the support given to us by our sponsors.

This competition marks seven years of the Universal Robotics Challenge working to include a diverse number of participants not only from here in Japan but across the globe. We will continue our proud tradition of teamwork to help spread the word of the Universal Robotics Challenge and make 2024's competition all the better.

We sincerely appreciate your continued support and guidance.