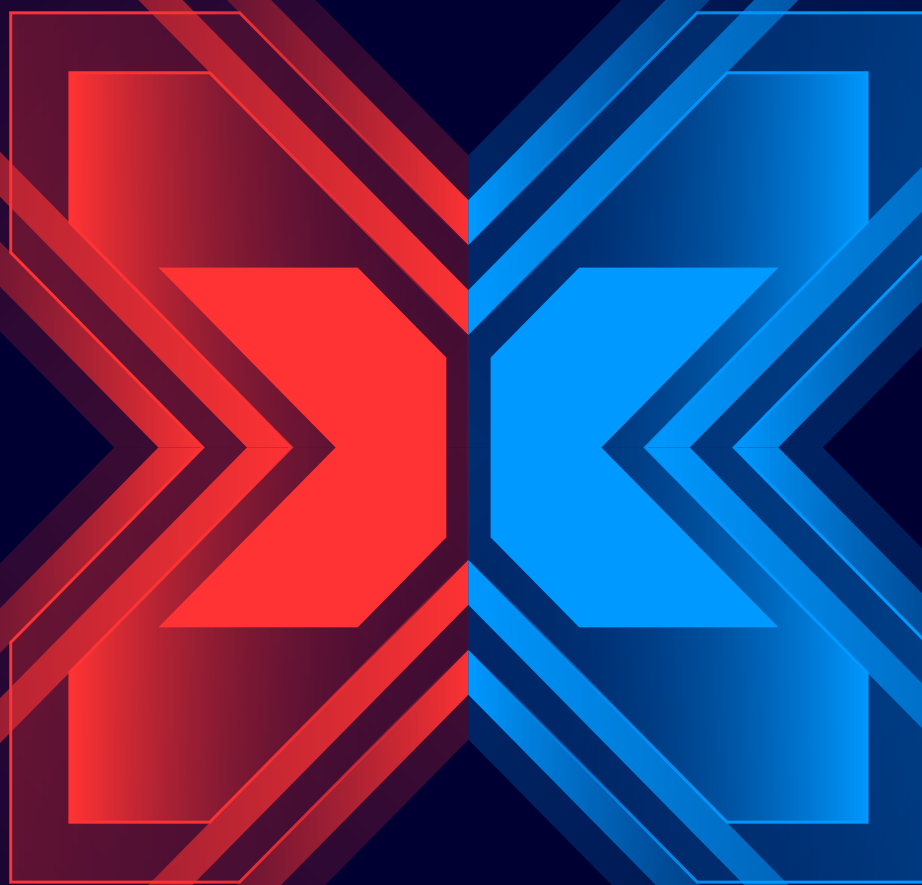


2020 MAKEX ROBOTICS COMPETITION

AWARDS GUIDE



Edited By MakeX Robotics Competition Committee



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1. Introduction

1.1 About MakeX

MakeX is a platform of robotic competitions for guiding the growth of young people. It aims at inspiring people's enthusiasm for creativity, sharing, and collaboration through Robotics Competition, STEAM Carnival, etc.

MakeX Robotics Competition is hosted by the MakeX Robotics Competition Committee, organized by Shenzhen Hulu Maker Co., Ltd. and supported by Shenzhen Makeblock Co., Ltd. As the core activity of MakeX; it aims that through the competition, young people will discover the spirit of creativity, teamwork, fun, and sharing. It is committed to promoting innovation in science, technology and education through high-level competition events, guiding young people to learn Science (S), Technology (T), Engineering (E), Art (A) and Mathematics (M) and applying such knowledge in solving practical problems through the exciting and challenging competitions.

1.2 MakeX Spirit

Creativity: we advocate curiousness and innovation, encourage all contestants to create unique high-tech works with their talent, and challenge themselves for continuous progress!

Teamwork: we advocate solidarity and friendship, encourage all contestants to develop a sense of responsibility and enterprising spirit, and sincerely work with their partners for win-win development!

Fun: we encourage contestants to build a positive, healthy mindset in the competition. Enjoy the journey and grow in the process.

Sharing: we encourage contestants to have an open mind as a maker and share their knowledge, responsibility, and joy with everyone, including their teammates and competitors.

MakeX spirit is the cultural cornerstone of the MakeX Robotics Competition. We hope to provide a platform for all contestants, mentors and industry experts to exchange ideas, study and grow up, and help young people acquire new skills during creation, learn to respect others in teamwork, gain an enjoyable life experience in the competition, take delight in sharing with the society their knowledge and responsibility, and work hard to achieve their grand aspiration of changing the world and creating



the future !

1.3 Awards Overview

Participating in the competition is more than win or loss. With the rapid development of the competition scale, MakeX has become a global platform for contestants from different countries and regions to communicate with each other, explore various cultures, integrate creations and innovations. All contestants can make full use of their advantages, strengthen the team's skills, focus more on the learning process and the knowledge accumulation to achieve comprehensive development in all aspects.

In the 2020 season, MakeX provides the following awards in different level of events:

Competition Category	Awards
Points Race Regional Competition	Special Awards Champion, Runner-up, Second Runner-up
National Competition	Special Awards Champion, Runner-up, Second Runner-up Excellence Awards(without MakeX Spirit Award)
Intercontinental Competition	Special Awards Excellence Awards Champion, Runner-up, Second Runner-up
World Championship	Special Awards Annual Excellence Award Annual Points Award Champion, Runner-up, Second Runner-up

1.4 Important Notes

- 1) This guide is suitable for teams and mentors applying for awards, award judges and anyone who is interested in MakeX award.
- 2) During award selection process, all the teams or individuals shall participate on their own, and award judges make decisions on their own. Event Organizer or



others cannot interfere judging or recommend candidates.

- 3) All teams must participate in the competition and awards selection without improper involvement from the mentor, which includes but not limited to building robots or writing programs for contestants instead of instructing them, providing onsite guidance during the match action, forcibly attending award interview or directly interfering in award judging. Once found, the team will be disqualified in the competition or awards selection.

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2. Evaluation Criteria

2.1 Champion, Runner-up, Second Runner-up

Champion, Runner-up and Second Runner-up winners are selected based on competition results and rankings.

2.2 Spark Awards

For the specific Spark awards and assessment forms, please refer to **2020 MakeX Spark Future Home Rules Guide**. MakeX Spark program will select a number of teams to enter 2020 MakeX World Championship according to the category and quantity of awards received by them.

2.3 Special Awards

Innovative Design Award



The Innovative Design Award is given to the team whose robot is creative, innovative and artistic. MakeX Committee encourages teams to break the shackles of thinking, show their robots of unique design and structure, and create a perfect fusion of aesthetics and technology with their own hands.


Applicable Program: MakeX Starter, MakeX Challenge, MakeX Premier

Judging Dimension:

- 1) The appearance design of the robot is unique, with multi-cultural ornamental elements full displaying the team.
- 2) The robot is scientific and reasonable in structural design. Achieve innovative breakthroughs with unique function implementation and structural arrangement.
- 3) The relevant content of the robot design in the engineering notebook is clear and detailed.

Engineering Notebook Award

Engineering notebook helps teams to establish files and better record the whole



learning process. Every improvement of the robots should be recorded, from prototype design, building robot, to the final debugging. The award is given to the team with high-quality engineering notebook.

Applicable Program: MakeX Starter, MakeX Challenge, MakeX Premier

Judging Dimension:

- 1) The content is complete, detailed and clear, the core section is prominent. Fully record all the learning process, problems and solutions.
- 2) Well-made and full of creative design.

Autonomous Program Award

This award is given to the team that can complete programming independently and achieve excellent results in the automatic control stage.

Applicable Program: MakeX Challenge, MakeX Premier

Judging Dimension:

- 1) During the Team Interview session, the team members show their clear understanding of the automatic program and explain well. The relevant program content in engineering notebook is clear and detailed, displaying excellent programming skills.
- 2) The award selection is decided by the ranking of total automatic stage points that teams obtain in Qualification Round. However, teams only get B(2 points) or C (0 points) grade in the Team Interview session will be disqualified for this award, and the award will be extended to the following team according to the ranking.

2.4 Excellence Awards

Excellence Awards are open to all teams(including Spark), set in national competition and intercontinental competition level, with evaluation based on the applicant's interview and competition performance. The judging process and results are totally independent of annual excellence awards in the world championship. For application requirements, please check **4.3 Excellence Award Selection Process and Material Requirements**.



Outstanding Mentor Award

This award is given to the outstanding mentors who lead the teams to achieve excellent results in the competition, demonstrate effective teaching method, fully recognize and practice the spirit of MakeX. MakeX Committee keeps the right to disqualify any mentor who violates competition rules with improper involvement, including but not limited to building robots or writing programs for contestants instead of instructing them, providing onsite guidance during the match action.

Judging Dimension:

- 1) Cultivate and guide students to establish correct values. Enhance student's independence of participation and thinking.
- 2) Demonstate professional skills, effective teaching methods with excellent results, substantial knowledge or leadership sharing experience.
- 3) Committed to creating a fair competition environment. Respect and comply with the MakeX spirit in the competition and daily teaching activities.

Promotion Ambassador Award

This award is given to the team that actively promotes the MakeX event, spreads the MakeX culture, and practices the MakeX spirit.

Judging Dimension:

- 1) Enegetic in sharing and promoting MakeX online and offline. Take the initiative to spread the MakeX spirit. Encourage and motivate people around to attend MakeX events. Postively form community influence.
- 2) Actively participate in MakeX competitions and activities, initiatively communicate with other teams and display unique team culture.

Technology Sharing Award

This award encourages teams to share technology and innovation experience, actively join the discussion and help other teams fix technical problems.

Judging Dimension:

- 1) Share high-quality technical articles online and get sufficient data feedbacks such as article views and likes. These articles are expected to contain practical and technical content which can be helpful for others, such as engineering notebook,



robot construction tips, precautions for potential problems onsite , etc.

- 2) Share technology through offline activities. The activity form is not limited to technical training, workshops, conferences etc. The sharing contents can be team building, robot debugging, robot structure, etc.
- 3) Before or during a competition, always get ready to communicate with and initiatively help others to fix the technical problems expecially for the new teams.

MakeX Spirit Award

The MakeX Spirit Award is given to the team with comprehensive capability, consolidated team culture and technology accumulation, recognizing and complying with MakeX spirit. **This award is only set in Intercontinental Championships and National events in China.**

Judging Dimension:

- 1) Achieve technical improvements. Demonstrate technical excellence in competitions. Keep scientific exploring spirit and continuously make technological or innovative breakthroughs. Play as a role model and actively drive the surrounding teams with its own strength.
- 2) Build team culture efficiently. Committed to the cultivation and construction of team culture. Perform the team's unique style through various activities. Share the team's culture, get ready to assist and communicate with other teams. and promote the spirit of the MakeX. Establish excellent team operation mode with reasonable work division, mutual trust, clear plans for future goals. Technical knowledge and skills are well transferred, shared and accumulated for new members.
- 3) Before or during a competition, always get ready to communicate with and initiatively help others to fix problems expecially for the new teams.

2.5 Annual Excellence Awards

The judging process and results of annual excellence awards are totally independent of excellence awards in the national or intercontinental competitions. These awards are open to all teams(including Spark) in the 2020 season, with evaluation based on the overall season performance of the team or mentor, and being awarded at 2020 World Championship. All applicants need to prepare materials in advance and submit online application within valid time period. For specific requirements, please check **4.4**



Annual Excellence Award Selection Process and Requirements.

Annual Outstanding Mentor Award

This award is given to the outstanding mentors who lead the teams to achieve excellent results in the 2020 season, demonstrate effective teaching method, fully recognize and practice the spirit of MakeX. MakeX Committee keeps the right to disqualify any mentor who violates competition rules with improper involvement, including but not limited to building robots or writing programs for contestants instead of instructing them, providing onsite guidance during the match action.

The judging dimensions are the same as the outstanding mentor award.

Annual Promotion Ambassador Award

This award is given to the team that actively promotes the MakeX event, spreads the MakeX culture, and practices the MakeX spirit in 2020 season.

The judging dimension are the same as the promotion ambassador award.



Annual Technology Sharing Award

This award encourages teams to share technology and innovation experience, actively join the discussion and help other teams fix technical problems in 2020 seasons.

The judging dimensions are the same as the technology sharing award.

Annual MakeX Spirit Award


This award is given to the team with comprehensive capability, consolidated team culture and technology accumulation, recognizing and complying with MakeX spirit in 2020 season.

The judging dimensions are the same as the MakeX spirit award.

2.6 Annual Points Awards

Annual Points National Leaderboard

This award is only set in the countries where the Points Race is held. According to the



competition results that each team achieved in this country throughout the season, the top 3 teams will be awarded with annual points champion, runner up, and second runner-up. Teams ranking 4th to 8th places will be awarded as top eight of annual points.

Annual Points Global Leaderboard

According to the competition results that each team achieves globally throughout the season, the top 3 teams will be awarded with annual points champion, runner up, and second runner-up. Teams ranking 4th to 8th places will be awarded as top eight of annual points.

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3. Awarding Principles

3.1 Basic Awarding Principles

- 1) The outstanding mentor award is given to individuals. All the others awards are given to teams.
- 2) Special awards are given according to different programs while excellence awards are given to all teams without program differential.
- 3) Winning the top 3(champion, runner-up, second runner-up) in one competition doesn't affect the team to participate in the selection of special and excellence awards. The only exception is MakeX Spirit Award. Please refer to the **3.3 Direct Eligibility for World Championship** for details.
- 4) In each competition, one team can only receive one special or excellence award. If multiple awards are nominated at the same time, the MakeX Spirit Award will be given top priority, followed by other excellence awards, then the special awards. Awards of the same category will be given priority according to the ranking of each award. For example, the team ranking 1st in Innovative Design Award and 2nd in Engineering Notebook Award will only be given the Innovative Design Award.
- 5) Teams or individuals receiving the Annual Excellence Award are not selected for the same award again in the next two years.
- 6) The same awards but in different competition levels are selected independently. For example, the team that wins the regional Engineering Notebook Award can submit the regional award certificate as reference when applying for the same award in the Intercontinental competition, but the judges will not add extra points or provide any advantage.
- 7) If there is no proper candidate for the award, the judge panel can keep the award reserved.

3.2 Awarding Quota Standard


The quota of each award in 2020 season shows as following:



Category	Awards	Regional /Points Race	National	Intercontinental	World Championship
Starter	Champion	2	2	2	2
	Runner-up	2	2	2	2
	Second runner-up	2	2	2	2
	Innovative Design Award	MIN 1 MAX 2% of all	MIN 2 MAX 4% of all	MAX 6% of all	MAX 6% of all
	Engineering Notebook Award	MIN 1 MAX 2% of all	MIN 2 MAX 4% of all	MAX 6% of all	MAX 6% of all
Challenge &Premier	Champion	2	2	2	2
	Runner-up	2	2	2	2
	Second runner-up	2	2	2	2
	Innovative Design Award	1	1	MAX 6% of all	MAX 6% of all
	Engineering Notebook Award	1	1	MAX 6% of all	MAX 6% of all
	Autonomous Program Award	1	1	MAX 6% of all	MAX 6% of all
Excellence Award	Outstanding Mentor Award	-	1	3	-
	Promotion Ambassador Award	-	1	2	-
	Technology Sharing Award	-	1	2	-
	MakeX Spirit Award	-	-	1	-
Annual Excellence Award	Annual Outstanding Mentor Award	-	-	-	1
	Annual Promotion Ambassador Award	-	-	-	1
	Annual Technology Sharing Award	-	-	-	1
	Annual MakeX Spirit Award	-	-	-	1
National Leaderboard	Champion	-	-	-	1
	Runner-up	-	-	-	1
	Second runner-up	-	-	-	1
	Top Eight	-	-	-	5
Global Leaderboard	Champion	-	-	-	1
	Runner-up	-	-	-	1
	Second runner-up	-	-	-	1
	Top Eight	-	-	-	5

***Notes:**

- 1) The awarding quota for MakeX Spark is not published here, please refer to the actual information released before each competition.
- 2) In case there is any discrepancy about the winning places between the competition brochure/notice and this guide, the competition brochure/notice released before the event shall prevail.
- 3) The annual points awards are selected regardless of programs, and the cumulative deadline for annual points is based on the actual notice released before the 2020 MakeX World Championship.

- 
- 4) The awarding ceremony of annual excellence awards and the annual points awards will be uniformly arranged at World Championship. If the team is not able to be present for the award, MakeX Committee will send the digital certificate directly.

3.3 Direct Eligibility for World Championship


In order to encourage the diversified development and reward teams with outstanding performance in team culture and technological innovation, the MakeX Spirit Award is set in Intercontinental Championships and National events in China. Teams that have received the MakeX Spirit Award will be directly qualified for the 2020 MakeX World Championship. Each event only reserves one winning place for this award, and selection will be made from all teams regardless of programs differential.

The winning teams (champion, runner-up, second runner-up) in the Intercontinental Championships or National Events in China will no longer be awarded the MakeX Spirit Award. The MakeX Spirit Awards selection are independent of the Annual MakeX Spirit Awards selection. Teams didn't win the award in the Intercontinental Championship can continue to apply for the Annual MakeX Spirit Award in World Championship.

3.4 Annual Points Reward Standard

The annual points reward for winners, special awards and excellence awards shows as following:

Category	Awards	Regional /Points Race	National	Intercontinental
Starter	Champion	15	30	45
	Runner-up	10	20	30
	Second runner-up	5	10	15
	Innovative Design Award	-	5	10
	Engineering Notebook Award	-	5	10
Challenge &Premier	Champion	15	30	45
	Runner-up	10	20	30
	Second runner-up	5	10	15
	Innovative Design Award	-	5	10
	Engineering Notebook Award	-	5	10
	Autonomous Program Award	-	5	10
Excellence Award	Outstanding Mentor Award	-	-	-
	Promotion Ambassador Award	-	5	10



	Technology Sharing Award	-	5	10
	MakeX Spirit Award	-	-	10

* In 2020 season the Annual Points Ranking will not include teams in MakeX Spark.

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4. Award Selection Process & Requirements

4.1 Award Information and Application Channels

Award information and application channels will be published originally on the MakeX official website (www.makex.io) and social platforms. Please pay closely attention to the announcement. (MakeX official website—Information—Announcement)

4.2 Special Award Selection Process

- 1) **Preparation:** No need to apply in advance. Please check the official website or on-site announcement to make sure you are on time.
- 2) **Starter special award selection:** No interview. Teams just need to submit engineering notebook during Robot Inspection. The head inspector will take charge of judging directly based on the teams' performance and their engineering notebook evaluation.
- 3) **Challenge/Premier special award selection:** The award interview is included in the Team Interview which Challenge&Premier teams must participate. The interview judges evaluate teams' performance and decide the award winners.
- 4) **Results:** The awards results will be announced before the competition ends. Please check the award announcement on the spot or consult the staff to make sure you are on time for the awarding ceremony.

4.3 Excellence Award Selection Process

Excellence Award selection process mainly includes the following steps:

- 1) **Application online:** All participating teams can apply. The award application announcement will be announced together with the World Championship information. Applicant needs to submit all necessary documents online within the valid application period.
- 2) **Primary selection:** After the application deadline, the judge panel screens the candidate list based on the application materials.
- 3) **Nomination announcement:** Nomination list will be announced on MakeX official website and social platforms.



- 4) **Award interview / Roadshow:** All nominated teams or mentors must participate on-site interview in the World Championship . According to the actual situation, interview may change into roadshow, which includes presentation, judge review, audience Q&A and other sessions.
- 5) **Result:** The results of awards will be announced at the awarding ceremony.

Award Application Material Requirements

- 1) Application materials

Excellence award application form.

Team or individual introduction video. (within 3 minutes, content based on the awards criteria) Please upload the video to internet and share the link, **DO NOT** send the original video.

Team or individual achievement report.(PPT or Word, content based on the awards criteria)

Other documents that help to demonstrate the applicant's achievements.

- 2) Applicant needs to sent email with all necessary documents(application form, video link, report etc.) to MakeX Committee within the valid application period. The email address of receiving applications is subject to the award announcement before World Championship. Any application from other channels or expired application will not be accepted.
- 3) The submitted application documents should be intergrated into a package. The email title and attachment name must comply with the format of "Team Number-Applicant Name-Program-Award Name". For example: "X10001-MakeXer-Smart Links-Appling for Ambassador Award". The video uploaded to the Internet must comply with the same format above. Any application doesn't comply with the required format will not be accepted.
- 4) Applicant should dispaly basic information on the cover page of all documents, including but not limited to team number, team name, and team member.
- 5) All the files should be created originally by the team or individuals themselves. If there is plagiarism, embezzlement or misappropriation of other people's achievements, the application will be disqualified.



4.4 Annual Excellence Award Selection Process

Annual Excellence Award selection process and the materials requirements are the same with Excellence Award selection process. The results will be released at World Championship awarding ceremony.

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5. Judge Workflow

The workflow in this chapter is applicable to the award selection work in national competitions and intercontinental championships. The selection of the MakeX Spirit Award will be jointly decided by the MakeX Committee and the competition award judge panel.

5.1 Appointment of Head Judge

As the person in charge of the whole award selection, the award head judge is usually nominated by the organizing committee or event manager and appointed directly by the MakeX Committee. The nomination of the head judge will give priority to candidates who have participated in the preparation or refereeing of MakeX events, who are familiar with MakeX competitions or other robot events and have their own unique understanding of robotics and STEAM education.

5.2 Form a Judge Panel

Recruitment: Two weeks before the competition or even earlier, the head judge starts recruitment and form the judge panel. The number of judges are suggested to be 3-5 in each group. They should have basic engineering and technical knowledge to be able to make judgments and evaluation on the team's electronics, structure, and programming skills.

The Head Inspector takes charge of the judging process for Starter special awards during robot inspection. The judges for Challenge and Premier special awards are the judges in charge of the Team Interview process.

Training: One week before the competition, the head judge shall organize online or onsite training, mainly explaining the basic principles of award setting, the selection process and precautions. Send the award materials and competition materials to all the judges in advance, such as awards guide, assessment forms, competition guide, rule videos, and competition schedules etc. so that they can get familiar with the awards selection and competition process in advance.

List of award judge training materials:

Awards Guide / Award Assessment Form / Award Selection Schedule

Competition Guide / Rule Video / MakeX Promo Video / Event Agenda / Match Schedule.



5.3 Judging Process

The Spark judging process may include rotating display and roadshow. For the specific judging process and requirements, please refer to **2020 MakeX Spark Future Home Rules Guide**.

Onsite preparation

The head judge should set up the award judging room in advance, including the sign board at the entrance of the room, tables and chairs, multimedia equipment (used for teams to play videos) etc.

Adjust and confirm the award selection schedule and the work division of judge panels according to the competition schedule. The award selection schedule shall be posted in advance for publicity, and notify all teams during the onsite registration.

On the event day, the head judge shall confirm all the judges to be present on time, check the assessment forms, award selection schedule, match schedule and other materials to ensure that everything and everyone get ready.

Award interview

The team that wants to apply for the award will participate in the award interview with required materials in the room. During the interview, please keep confidential work in mind. Non panel members shall not participate in or interfere with the award interview.

Excellence award interview period: The interview is suggested to be finished before the mid-time of championship or elimination rounds. Set aside half an hour to one hour to observe the team's performance in competition area and pits area, complete the review discussion and decide the final list before the whole competition finishes.

Review discussion

After the interview session, the judge panel will close the interview room and conduct onsite discussions organized by the head judge. All the judges will share their views and observations, rank the score according to all teams' performance, and make the final list of winners. During the discussion, please keep the confidential work in mind. Non panel members shall not participate in or interfere with the award selection. If there is no suitable candidate, the award place can be reserved.



5.4 Results Announcement

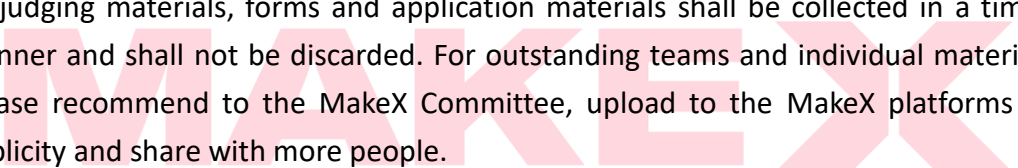
The winning results should be announced before the end of the competition by posting on the bulletin board or broadcasting throughout the competition/pits area. Excellence Award will be announced at the awarding ceremony. Please reserve at least 30 mins to notify the teams to be ready for the awarding ceremony.

5.5 Awarding Ceremony

The head judge and event manager should prepare trophies, medals, certificates and other award materials in advance. If conditions permit, all awards can be given by the judge panel or invited guests during the closing ceremony. If not, the award can be given by the judges during the break of the match or after the match.

5.6 Material Collection

All judging materials, forms and application materials shall be collected in a timely manner and shall not be discarded. For outstanding teams and individual materials, please recommend to the MakeX Committee, upload to the MakeX platforms for publicity and share with more people.





6. Advices for Interview & Roadshow

This chapter is ready for both teams and judges participating in Excellence Awards selection, which provides references for the interview and roadshow sessions. Teams can think about these introductory questions and prepare in advance. Judges can have further discussion with teams based on these topics and advices.

Advices for judging & interview

- The judge panel should check the required materials, set up the interview room, and get prepared for the interview to start.
- During the interview, the judges should carefully read every engineering notebook and other submitted materials.
- If the applicant cannot understand question properly, the judges should be patient and repeat, or try another way of expression to guide the positive answer.
- Avoid too limited questions. Encourage applicants to express and think with an open mind.
- The team members may be nervous. The judges should effectively communicate with them and relieve their pressure and nerves. Ask more questions about robot and guide them focus on the rational thinking of robot and strategy.
- During the interview, the judges and the applicants should communicate friendly and learn from each other. Instead of criticizing and negating, judges please smile, talk with equality, show respect and respond euphemistically if necessary. All of these will help judges to better understand the works and make a pleasant interview experience for the applicants.
- Being as an award judge will witness thinkings and dedication of the applicants, at the same time they may also have impact on the applicants as an adult model. Therefore, each judge must take the interview seriously, objectively and fairly, give more positive guidance and encouragement.
- During the interview, each judge can use paper, pen, mobile phone or camera to record the applicant's performance in the interview, evaluate robots and engineering notebook to assist the selection.
- The contestants from all over the world have different personalities and different expressive abilities. Here are some examples for the judges to guide contestants



to better express themselves during the interview:

Does your robot have a name? Please describe its structure and the construction process.

Are you proud of your robot? Why?

What's the biggest challenge you met in the competition? How did you adjust your robot to solve this problem,?

Before you start designing a robot, where did you get your idea or inspiration?

After robot design and construction, how do you implement the function debug?

How will you improve your robot after this competition ?

Did you see any impressive robot in the MakeX competition? What attracts you most?

.....

Advices for on-site roadshow (optional)

- Before the roadshow, the participating teams / individuals should confirm the media materials and playback equipment are ok, get familiar with the equipment operation and the performance stage.
- All award judges please review the application materials before the roadshow and make notes during the roadshow.
- Please prepare time display equipment to remind the time for both applicants and judges. Reasonably allocate the time between roadshow presentation and Q&A.
- In the Q & A section, both the applicants and judges should concisely talk and avoid irrelevant explanations due to time limitaion.
- For better performance, all the candidates please prepare the roadshow content in advance and try to speak without scripts onsite.



7. Statements

7.1 Update of Awards Guide

The MakeX Robotics Competition Committee reserves the right to revise and improve the Awards Guide during the whole season. All the official documents and files will be updated on the MakeX official website www.makex.io. Applicants are obliged to pay attention to the updates before the competition. Any problem caused by the applicants not keeping up with updates of the materials and data is borne by the applicants themselves.

7.2 Qualification Statement

The MakeX Committee reserves the right to disqualify any applicant for any reason, including but not limited to failing to meet awards selection requirements, seriously violating the spirit or fairness of the competition.

7.3 Copyright Declaration

The official language for MakeX is Chinese. English or other language translations are prepared to facilitate the team's preparation process. All documents translated to English are for reference only.

The MakeX Robotics Competition Committee reserves the final interpretation of this Awards Guide.

Shenzhen Hulu Maker Co., Ltd. reserves the copyright of this Awards Guide. Without the written consent or authorization from Shenzhen Hulu Maker Co., Ltd, any entity or individual may not reproduce, including but not limited to any network media, electronic media or written media.



Appendix 1: Engineering Notebook Guideline

2020 MakeX Robotics Competition Engineering Notebook Guideline

*Instruction:

1.The value of engineering notebook: It helps the team establish files and record the whole learning process. Therefore, the record of an engineering notebook should run through the entire preparation process for the competition.

2.Engineering notebook submission: Teams can use online documents or handwriting. No matter which way to use, each team must submit a paper version onsite.

Paper version of the engineering notebook: As the competition programs (Intelligent Innovator&Ultimate Warrior) require the presentation process, 1 copy of the paper version shall be submitted by each team to the judges at the presentation site.

If there is no presentation process (Smart Links), teams will need to submit 1 copy of the paper version to the staff at the inspection area.

3. An engineering notebook will be required for the evaluation of all technical awards. Please refer to the Awards Guide for the evaluation criteria of each award.

Basic Requirements of Cover

The team name, team number, and competition program must appear on the outside cover of the engineering notebook.

Basic Requirements of Contents

1. Clear content

Creating content brings convenience for the judges to review and quickly find the corresponding section.

2. Process records

Every improvement of the robots should be recorded from prototype design, building a robot, to the debugging. **Keep pictures of all manuscripts, design drawings, calculation processes, circuit diagrams, etc., and insert them into an engineering notebook.**

- 1) Schedule of robot building progress
- 2) Design inspiration/sketch



- 3) Technical principle (it can be disassembled into different parts)
- 4) Production step by step (with clear pictures)
- 5) Problems encountered and solutions

Examples of problems:

- What technical failures did you encounter? Why did you fail? How did you solve the problems finally?
- What efforts have you made for the robots? What improvements have been achieved?
- Does your project progress schedule go as planned? What accidents or delays have occurred? How to fix it?
- Has there been any dispute among the team members? How to settle it?

3. Projects summary

- 1) The structure and function of the project (with pictures and text enclosed)
- 2) The technical innovations of the project
- 3) Competition strategies for scoring and defense

4. Team introduction

- 1) A brief biography of each team member and their role on the team.
- 2) Culture displaying (logo, team flag, slogan, posters, T-shirt, etc.)
- 3) Excellent achievements sharing (Stories)

5. Feelings and other things you want to share (optional)

- 1) Achievement in the competition (Technical)
- 2) Growth in the competition (Spiritual)
- 3) Suggestions for competition

Appendix 2 Special Award Assessment Forms

MakeX Innovative Design Award Assessment Form ■ Smart Links ■ Intelligent Innovator ■ Ultimate Warrior							
Team Number:				Team Name:			
Dimension	Specific Items	Points Range					Score
Innovative Appearance Design (20 points)	Unique and distinctive appearance	10	8	6	4	2	
	Artistic and ornamental design	10	8	6	4	2	
Innovative Structure Design (30 points)	Structure is compact and exquisite, with robot movement flexible and function stable	10	8	6	4	2	
	Structural design is unique and different	10	8	6	4	2	
	Achieve innovative breakthrough in function implementation	10	8	6	4	2	
Engineering Notebook (10 points)	The content of appearance or structural design is discussed clearly in detail.	10	8	6	4	2	
Total Score							
Judge Notes:							
Judge Signature: _____ Date: _____							



MakeX Engineering Notebook Award Assessment Form

▪ Smart Links ▪ Intelligent Innovator ▪ Ultimate Warrior

Team Number:			Team Name:				
Dimension	Specific Items	Points Range					Score
Contents Richness (45 points)	The cover page shows complete team information	5	4	3	2	1	
	Clear and complete structure, important parts highlighted	10	8	6	4	2	
	The chapters are detailed and well organized	10	8	6	4	2	
	Record learning process with rich words and pictures	10	8	6	4	2	
	Detailed manuscript showing iterations of robot, problems and solutions	10	8	6	4	2	
Aesthetics (20 points)	Well-made, high aesthetic and ornamental	10	8	6	4	2	
	Creative design of cover and content	10	8	6	4	2	
Total Score							
Judge Notes:							
<div style="text-align: right;"> Judge Signature: _____ Date: _____ </div>							

Appendix 3 Excellence Award Assessment Forms

MakeX Promotion Ambassador Award Assessment Form							
Team Number:				Team Name:			
Dimension	Specific Items	Points Range					Score
Online Promotion (20 points)	Enegetic in sharing and promoting MakeX on various online platforms.	10	8	6	4	2	
	Postively form community influence.Get sufficient data feedbacks such as article views, likes, etc. Promote the communication between members.	10	8	6	4	2	
Offline Promotion (20 points)	Enegetic in sharing and promoting MakeX in various offline activities.	10	8	6	4	2	
	Postively form community influence.Get sufficient data feedbacks such as events number, audience scale etc. Promote the communication between members.	10	8	6	4	2	
Ready to Help (10 points)	Actively participate in MakeX events, initiatively talk with others and display unique team culture.	10	8	6	4	2	
Application Materials (10 points)	All documents are well organized , clearly stated and logically expressed.	5	4	3	2	1	
	The video is well made, with all team members and achievement present reasonably.	5	4	3	2	1	
Total Score							
Judge Notes:							
<div style="text-align: right;">Judge Signature:</div> <div style="text-align: right;">Date:</div>							



MakeX Spirit Award Assessment Form							
Team Number:		Team Name:					
Dimension	Specific Items	Points Range					Score
Technique Level (20 points)	Demonstrate technical excellence in competitions. Play as a role model and actively drive the surrounding teams with its own strength.	10	8	6	4	2	
	Keep scientific exploring spirit, and continuously make technological or innovative breakthroughs.	10	8	6	4	2	
Team Culture (30 points)	Establish excellent team operation mode, with reasonable work division, mutual trust, clear plans for future goals.	10	8	6	4	2	
	Knowledge and skills are well transferred, shared and accumulated. Committed to training and collaborating with new members.	10	8	6	4	2	
	Share the team's culture, and promote the spirit of the MakeX.	10	8	6	4	2	
Ready to Help (10 points)	Communicate with others and initiatively help to fix problems especially for the new teams.	10	8	6	4	2	
Application Materials (10 points)	All documents are well organized, clearly stated and logically expressed.	5	4	3	2	1	
	The video is well made, with all team members and achievement present reasonably.	5	4	3	2	1	
Total Score							
Judge Notes:							
<div style="text-align: right;">Judge Signature:</div> <div style="text-align: right;">Date:</div>							



MakeX Technology Sharing Award Assessment Form							
Team Number:		Team Name:					
Dimension	Specific Items	Points Range					Score
Sharing Online (15 points)	Share high-quality technical articles online which contain practical and technical content.	10	8	6	4	2	
	Get sufficient data feedbacks such as article views, likes, etc. Promote the communication between members.	5	4	3	2	1	
Sharing Offline (15 points)	Share technology through offline activities, such as technical training, workshops, conferences etc.	10	8	6	4	2	
	Get sufficient data feedbacks such as events number, audiences scale etc. Promote the communication between members.	5	4	3	2	1	
Ready to Help (10 points)	Communicate with others and initiatively help to fix technical problems especially for the new teams.	10	8	6	4	2	
Application Materials (10 points)	All documents are well organized, clearly stated and logically expressed.	5	4	3	2	1	
	The video is well made, with all team members and achievement present reasonably.	5	4	3	2	1	
Total Score							
Judge Notes:							
<div style="text-align: right;">Judge Signature:</div> <div style="text-align: right;">Date:</div>							



MakeX Outstanding Mentor Award Assessment Form

Mentor Name:

Dimension	Specific Items	Points Range					Score
Education Ideal (10 points)	Cultivate and guide students to establish correct values. Enhance student's independence of participation and thinking.	10	8	6	4	2	
Expertise skills (20 points)	Demonstrate professional skills, effective teaching methods with excellent results	10	8	6	4	2	
	Proactively share knowledge, skills or leadership experience during the education practice.	10	8	6	4	2	
MakeX spirit (20 points)	Committed to creating a fair competition environment.	10	8	6	4	2	
	Recognize, respect and practice the MakeX spirit, promote it by many ways.	10	8	6	4	2	
Application Materials (10 points)	All documents are well organized, clearly stated and logically expressed.	5	4	3	2	1	
	The video is well made, with all team members and achievement present reasonably.	5	4	3	2	1	
Total Score							
Judge Notes:							
Judge Signature: Date:							

Appendix 4 Excellence Award Application Form

2020 MakeX Excellence Award Application Form			
Applicant/Team Name		Contact Number	
Team Number		E-mail	
Country or Region		Competition Name	
Award	<input type="checkbox"/> Technology Sharing Award		<input type="checkbox"/> MakeX Spirit Award
	<input type="checkbox"/> Promotion Ambassador Award		<input type="checkbox"/> Outstanding Mentor Award
Applicant	<input type="checkbox"/> Team		<input type="checkbox"/> Mentor
Application Materials	<input type="checkbox"/> Application Form <input type="checkbox"/> Video <input type="checkbox"/> Report <input type="checkbox"/> Others _____		
Social Media Account / Website (Optional)			
Participation and Results in 2020 Season			
Please fill out this form truthfully. For application methods and requirements, please refer to the award announcement published on the official website.			

Appendix 5 Awards Selection Schedule – Template

Awards Selection Schedule-Template			
Event Name	MakeX National		
Award List	Stater	Challenge	Excellence Award
	Innovative Design Award	Innovative Design Award	Technology Sharing Award
	Engineering Notebook Award	Engineering Notebook Award	Promoting Ambassador Award
	-	Autonomous Program Award	Outstanding Mentor Award
Interview Time	During Robot Inspection	During Team Interview	8:30-15:00
Interview Place	-	Team Interview Room	Excellence Award Interview Room
Requirements	Robot & Engineering Notebook		Application Materials
Result Announcement	16:30		
Awarding Ceremony	17:00		
Notes: Please bring your appliacation materials and attend the Award Interview on time. For Spark Awards please check the Spark Schedule.			



MakeX Robotics Competition Committee

AWMVA RD GUIDE

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(EN): www.makex.io

Instagram:

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Facebook:

[MakeX](https://www.facebook.com/MakeX)

Facebook Official Account

