



MagiCube Limited
賢思創科有限公司

Search...



Leo

Basic

Input

Music

Led

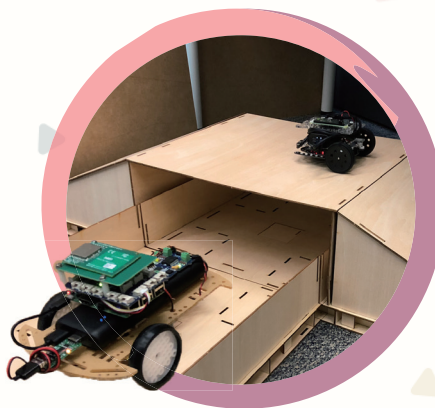
Radio

Logic

Logic

on start

```
set gradeA to 85
set gradeB to 75
set gradeC to 65
set gradeD to 50
set score to 70
```



Una platform

Having trouble with STEM education ?

Time wasted on lesson prep?

Struggling with materials?

Classroom in chaos?

Revolutionary STEM education

1. The first Multi-functional STEM platform that supports MakeCode and micro:bit
2. In-house designed STEM peripheral
3. Teaching materials written by scholars
4. One-stop teacher training
5. Professional technical support
6. STEM Lab Setup Service



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2018年10月25日
小四常識科主導 STEM 課程

主題：奇妙的世界
單元：齊來聽聽看看
電的故事
內容：能量與能量轉換
電與日常生活

STEM education sounds complicated. Is there a way to make my teaching more efficient?



Effective STEM Platform



Una, which means 'together' in Latin, brings practical collaborative learning into every classroom. Our user-friendly design caters to both veteran and rookie teachers with or without an IT background, hoping to ease teachers' burden in today's ever-changing educational environment. As the first teaching and learning platform specifically designed for STEM education, Una supports Microsoft MakeCode for various STEM hardware such as micro:bit and Raspberry Pi.

Teachers' interface

Classroom Management

Time Saving for planning and lesson

< 3E- Math triangle

School Mode ☒ ON

Scaffold lessons according to each class' needs and progress

Real-time managing and students' grouping

Real-time monitoring of students' performance

Gate-keep students' progress

Students' interface

Support various teaching materials

Interactive learning makes lessons more fun

Step by step, easy to use

Ask teachers for help

Using pre-loaded code to save time

Group discussion to share coding

Other important features

- Virtual classroom can group and monitor students
- Real-time automation can minimize mistakes
- Auto-saving reduces problem caused by disconnection

- Save time by using auto-marking system
- Enjoy free teaching materials
- Co-planning and access to all materials uploaded by teachers

It's so boring to keep using the same materials!

It's not easy to keep lessons meaningful and fun...

Una board nurtures unlimited designs and ideas!

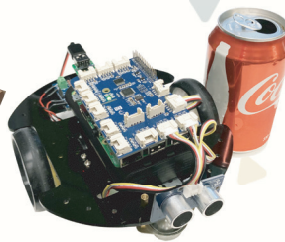
Developed by our own R&D team, Una board is designed to cultivate students' computational concepts in and outside classrooms. The maze can be remodeled into various sizes and shapes according to the objectives of the lesson and the learning needs of the students, bringing the virtual world into reality.

Hardware



Una board

- Includes floors, walls, bridges and tunnels
- The maze is expandable and solid



DIY Cars

- Supported by portable charger, DIY cars can be used throughout the day
- Can add different sensors on it



Color Lighting board

- Equipped with programmable lighting
- Supports multiple computational thinking trainings and games

Advantages



Countless possibilities

- The maze and sensors can be freely further expanded, giving no limitation to the design of teaching material



Cost-effective

- We employ currently available products and accessories in the market, such as micro:bit, Raspberry Pi, portable chargers, etc



Connect to Una Platform

- Saves time on lesson preparation: Select free teaching materials; teach with the same User Interface as MakeCode
- Save time on teaching: Make use of the virtual classrooms; upload the programmes in advance and auto-marking
- Effective teaching: Make use of various pedagogies; scaffold explanations and data analysis
- Elevate your teaching: Upload self-made materials and improve existing Una board lesson plans

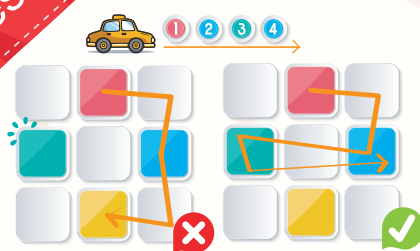


Computational thinking

- Basic programming, including branching, loop, variable, random, etc
- Interact with DIY cars or other sensors
- Problem solving by Algorithm
- Decomposition & Abstraction, to understand abstract concept

EDB recommended

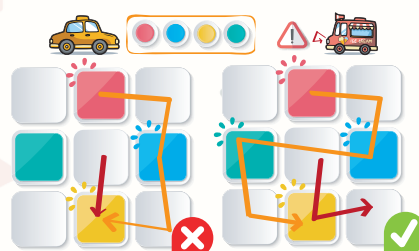
Modes



Training Mode

The car travels to the color plates according to the programmed sequence.

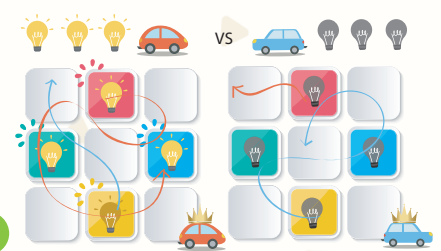
For example, the car should get: Red --> Blue --> Green --> Blue through the tunnel in order to complete the task



Gaming Mode

Students are to follow a specific set of rules in order to control the car and complete the task.

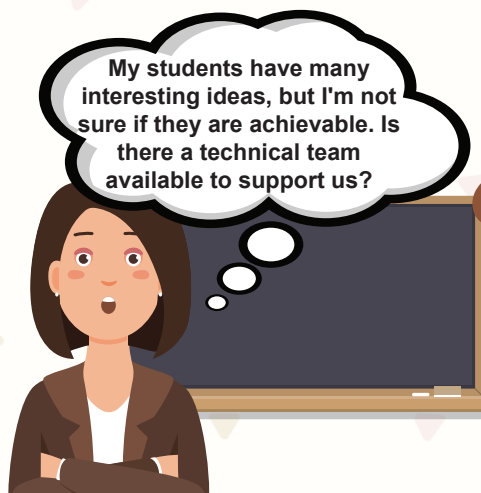
For example, students have to get to all coloured plates and turn off the lights by avoiding movable traps



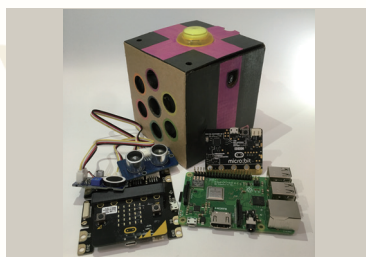
Battle Mode

Multiple programmed cars carrying out various tasks

The sun car battles the moon car with the former aiming to turn on all the lights while the latter aims for the opposite



We can offer the following services to help you!



Purchasing suitable hardware and programming drivers

We can provide options, purchase, test and update the processors and hardware based on individual school's needs. We can also write the relevant programming drivers for the hardware of your choice, allowing students to learn programming step by step, thus realizing students' and teachers' creative ideas.



Tailor-made STEM teaching materials

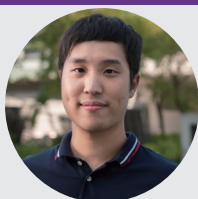
We can tailor-make materials suitable for students' capability and pace. The lesson plans and materials are designed by Dr. Yeung, who has years of experience in teaching computational thinking, together with his professional programming team. The materials cater to various STEM subjects to facilitate the implementation of STEM education without the need to spare extra time out of the already-tight teaching schedule and timetable.



Teacher and student training

We can arrange seminars and workshops at schools on the use of new technologies, provide technical support, share effective STEM pedagogy with teachers and introduce different STEM hardware to both teachers and students.

Professional Team



Dr. Yeung Cheuk Yu, Leo
Managing Director & Founder
Adjunct Assistant Professor in
Department of Computer Science, HKU



Dr. S.M. Yiu
Pedagogical and Technological Advisors
Associate Professor in Department of
Computer Science, HKU

Choose Us



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Founded in 2017, MagiCube Limited aims to open a whole new perspective of teaching and learning using state-of-the-art education technologies. Through our innovative online educational platform, our users would be able to enjoy unique learning experiences and feel confident in adapting to the digitized society in the 21st century.

MagiCube understands the difficulties of frontline teachers, particularly the need to keep up-to-date regarding the ever changing new developments of STEM education. Therefore, MagiCube provides a one-stop economical and efficient platform for schools to carry out STEM education. Una is developed by a group of experienced educators and programmers, aiming to help schools build the necessary foundation to start a comprehensive STEM education plan.

We are experienced in aiding schools to apply for the establishment of a STEM Lab. If you are interested in our service, or should you have any enquiries, please do not hesitate to contact us!

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