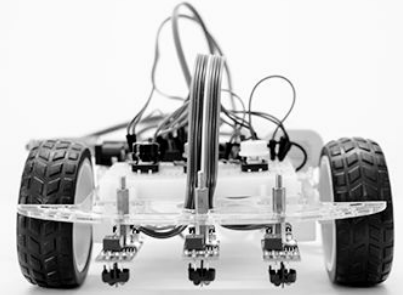


2023



# resolute.

Coding and robotics for the next generation 



# What is **Resolute**?

Resolute Education is a proudly South African company that aims at shaping the youth of today for the future which starts tomorrow. We aim to make learning fun, exciting and interactive through intuitive concepts in coding, engineering and data sciences provided in a wide variety of courses that cater to a large range of ages and school grades.

Students in schools (K-12) and tertiary institutions can enjoy our courses as part of their school curriculum, as an extra mural, or as part of our online academy. We offer a combination of both hardware and software courses that challenge the learners to put their creative and practical skills to use.

Our goal is aimed not just at giving students the chance to understand the technology of the future, we are also teaching them skills that will one day assist their employability in the working world. Robotics and coding teaches students how to think critically, work in groups and solve problems logically, persevere no matter the issue and collaborate on a variety of ideas.



# The Problem.

Globally, educational institutions are embracing new tech-centered subjects such as robotics and coding to equip students with digital, critical thinking, and innovation skills to meet the demands of the modern job market. However the problem they face is three-fold:

**Educators lack the expertise in these new fields and have limited time to explore and create new curricula**

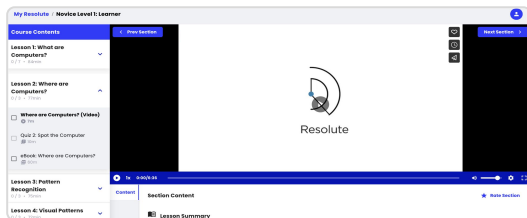
**Existing solutions are not accessible to the mass market but rather target the exclusive few**

**Existing service providers provide partial solutions, like robotic toys which seem exciting at face value but lack the comprehensive integration needed for success in the school environment.**

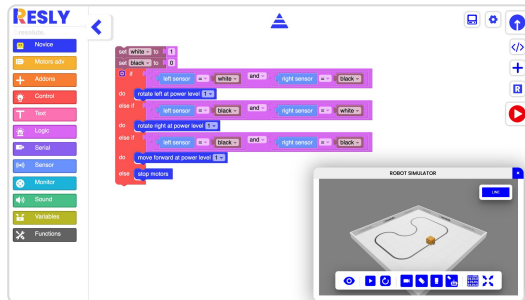
# Our Solution.



We've designed a solution that offers schools an economical option for incorporating robotics and coding education. It includes cost-effective robotic kits, in-depth training programs, and access to our proprietary educational licenses, including our interactive coursework and novel software environments.



**Progressive Robotics & Coding Curriculum**



**Physical Kits & Virtual Robotic Environments**



**Educator Training & Development**

# Our Offering.

## Coding & Robotics Modules



We offer a comprehensive academic model which assists schools in implementing robotics and coding programs.

- **Modules:** 25+
- **Academic Curriculum:** Progressive K-12 curriculum, theoretical books, annual lesson plans, assessments, quizzes and so much more
- **Online Learning Platform** with a comprehensive video database, school management system and analytics
- **Fields:** Engineering and Computer & Data Sciences

The image displays six module cards arranged in a 2x3 grid. The top row features 'Micro:bit Starter' (purple), 'Smart Garden' (green), and 'Novice Online Class Level 1 to 2: Virtual' (blue). The bottom row features 'Advanced LINE FOLLOWING ROVER' (red), 'Novice Level 1: Learner' (blue), and 'Computational Thinking Grade 2' (orange). Each card includes a title, a brief description, a list of topics, and 'Details' and 'Start' buttons.

| Module Name                               | Category | Description   | Topics   |
|---|----------|---|--|
| Micro:bit Starter                         | Robotics | Get started with robotic using the Micro:bit. Learn how to program on the Micro:bit platform. Make... | Block-based Coding, Micro:bit, MakeCode, Simulations                   |
| Smart Garden                              | Robotics | Design and build your very own automated Smart Garden!  | DIY Kit, Sensors, Smart Garden, Project Lab                            |
| Novice Online Class Level 1 to 2: Virtual | Robotics | This is the Novice Online Class: Level 1 to 2 Virtual course.   | Ready, Block-based Coding, Pattern Recognition, Computational Thinking |
| Advanced LINE FOLLOWING ROVER             | Robotics | A fun introduction to automation and robotics with Arduino  | Programming, Arduino Uno, Line Following, Coding                       |
| Novice Level 1: Learner                   | Robotics | Learn and apply computational thinking to coding the Novice Bot.                                      | Educational Toy  |
| Computational Thinking Grade 2            | Coding   | Expand upon concepts taught in Grade 1 with fun exercises for Grade 2 students.                       | Pattern Recognition, Computational Thinking                            |

# Our Offering.

## Robotic Kits

Robotics kits containing a variety of electronic components that bring projects to life. With a little bit of creativity, students can build hundreds of projects.

- 10+ kits
- Cost-effective
- Re-usable
- Ages 5 - 18+



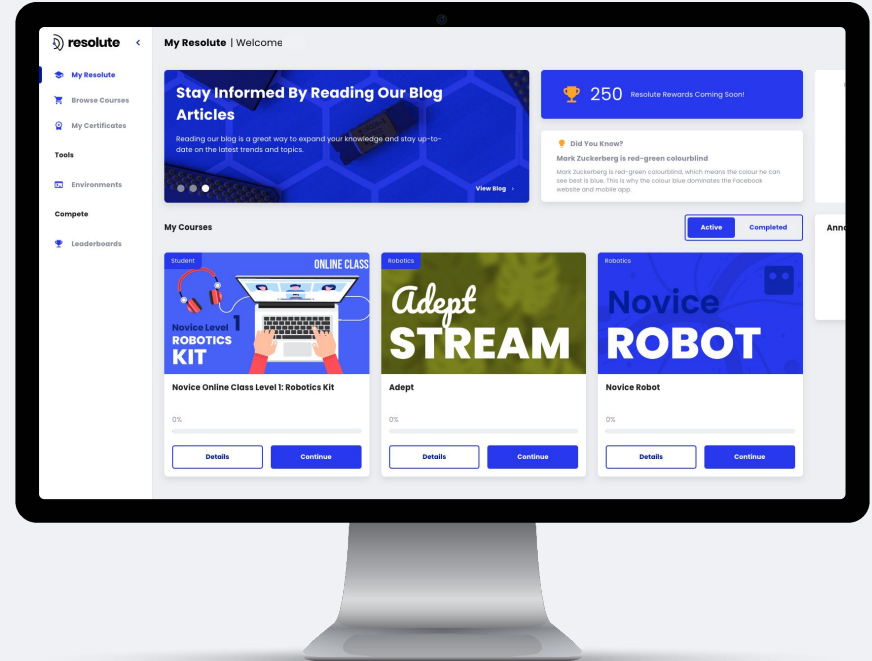
# Our Offering.

Online Learning Platform



**A comprehensive library of videos covering all the concepts required to master our modules. From theoretical knowledge all the way to practical applications.**

- Teacher and student centered courses
- Block-based & text-based software coding environments
- Classroom management system
- Analytics



# Our Offering.

Training & Support



**We offer in person and online, training programmes to enable our educators to help their students achieve their coding and robotics learning outcomes regardless of prior coding experience**

- 24 hour training programme
- Continuous annual training sessions divided across the year
- Fundamentals on robotics and coding concepts
- Learn to program robots and build electronic circuits from first principles
- Introduction to all relevant coding environments softwares (block based and text based coding)





# Implementation.

Our educational robotic kits & courses can be implemented in **three** different ways:

## ***In-Curriculum***



## ***Extra-Mural: Clubs***



## ***Online Academy***





# Our **Milestones.**

Since 2018 Resolute Education has achieved the following:



**200**  
Schools



**6**  
Countries



**50 000+**  
Students



**1000+**  
Educators



Partner with **us.** 



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