

# ES EDUCATION



Preparing Our Children for the Era of AI



## ES EDUCATION

ES Education by ESVISION Technology, leveraging its world-leading AI technologies and experiences across multiple industries, ES Esvision is committed to developing AI education programs for K1-K12, vocational and professionals to nurture new talents for the future.

Easy to use and affordable hardware.  
Customized Solutions for Schools.  
Modular and industrial electronics  
Learning platform for AI, Python, C/C++, IOT

A One-stop Solution for Education  
Hardware  
Software  
Storage Solutions  
Curriculum System  
Training  
Competitions



# CONTENTS

<b>Solution Overview</b>	<b>4</b>	<b>Secondary education</b>	<b>20</b>
<b>Early education</b>	<b>6</b>	ES Cyber	22
ES Discover	8	ESBuild platform	24
<b>Primary education</b>	<b>12</b>	Coding with ESBlock	26
ES Codey	14	ESBot series	30
ES Neuron platform	16	ES Ranger	32
Coding with ESBlock	17	Ultimate 2.0	33
		Coding and projects	34
		<b>ES Innovation Space</b>	<b>38</b>
		Create an Innovation Space	40
		ES Tech space kits	42
		Laserbox Pro	44
		ES Create 3D printer	46



# ES Education Overview

## LEARNING CONTINUUM

At ES Education, we understand that every educational level requires different skill sets that need to be nurtured, continually contributing to take a student to the next level of their growth path. Our solutions are interconnected, creating a continuum path of learning which takes them from their very first steps into the world of all the way to becoming master creators of their own ideas.

Our solutions are not limited to the role of the learner, but also include the necessary support for the educator to guide the learning process. Activities and lesson plans accompany our soft and hardware, which are also complemented by training and workshops, delivered by our expert educational partners around the world.

PRIMARY  
EARLY CHILDHOOD

SOFTWARE

ES Block

Tangible

Scratch/  
Python

ES Discover

ES Codey



DIY PARTS

Mechanical  
parts

Neuron  
platform

ES Discover

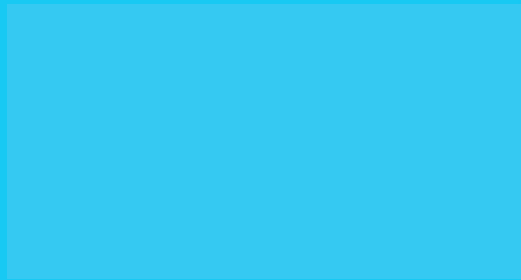
ES Codey

Early Literacy,  
Mathematics, Logic,  
Music & Art

Coding, Logic, AI,  
IoT, Data Science,  
Music & Art

Screen-free coding

Scratch, Python



SECONDARY

ALL LEVELS

Scratch/microPython, Python 3/  
Arduino C, AI, IoT, Data Science

Laserbox  
software

ESCreate  
plugin

Scratch/  
Python

Scratch/  
Arduino C

Smart  
laser cutter

Smart  
3D printer &  
laser engraver

ES Cyber

ESBot series



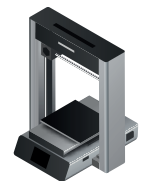
Structural parts  
Motors/servos  
Movement parts

Laserbox Pro

ES Create 2.0

ES Build  
platform

RJ25 Arduino  
platform



Overview

### ES Cyber

Coding, AI, IoT,  
Data Science,  
Engineering

Scratch, Python

### ES Bot series

Coding, AI,  
Engineering,  
Robotics

Scratch, Arduino C

### Laserbox Pro

Art,  
Crafting,  
Engineering

Laserbox software

### ES Create 2.0

Art,  
Crafting,  
Engineering  
ES Create plugin for  
Cura

# PRIMARY EDUCATION

Primary education is the first formal step in preparing students for their educational future. Students acquire key skills including literacy, numeracy and basic science, while digital, social and civic skills are also now deemed essential.



ES Education primary school solutions are designed to build students' interest in STEAM topics, cultivating their skills through project-based learning and collaboration, enhancing their analytical problem-solving skills. Computational thinking continues to be a key element for the development of the four key skills: decomposition, pattern recognition, abstraction and algorithms.

Primary education  
**ES Codey**



**Key features**

Learning through play  
Interactive  
Built-in WiFi module

**Teaching resources**

User manual  
Professional development  
Getting started activities

## THE CODING COMPANION

**ES Codey is the robot that makes learning computer science, technology and 21st century skills easy.**

Start programming right out of the box - no building required. ES Codey supports block-based and Python programming as well as cutting-edge technologies such as Artificial Intelligence and the Internet of Things.

Computational thinking continues to be a key element, with integration of the four key skills: decomposition, pattern recognition, abstraction and algorithms.





## Learn coding

Ideal beginners robot with a strong focus on programming and computer science.

## Powerful and smart

Small robot with an array of built-in sensors and hardware, including infrared, Bluetooth and WiFi connectivity.

## AI, IoT and data science

Practice and teach with cutting-edge technology, such as Artificial Intelligence, Internet of Things, and Data science.



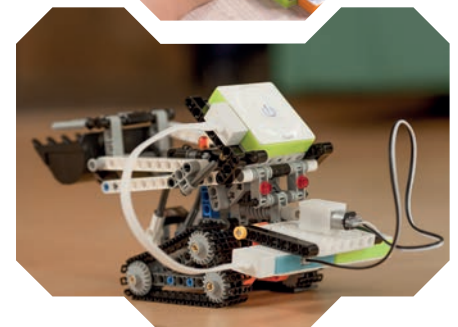
# ES Neuron platform



## SPARK INVENTION WITH SMART BUILDING BLOCKS

ES Neuron is a platform of programmable electronic building blocks for the logical creation and intuitive programming. The platform contains over 30 different electronic sensors and actuators.

- 30+ electronic modules
- Compatible with ES Codey
- High-quality smart sensors
- Programmable modules with preset functions
- Input-processing-output scheme
- Magnetic design for mounting
- Safe and friendly design





## BLOCK-BASED PROGRAMMING



Designed explicitly to help students understand the key concepts of programming, ES Block allows learners to drag and drop code blocks, making programming as intuitive and straightforward as playing with building blocks.



## Programming ES Codey and ES Neuron

With ES Block , ES Codey is programmable with both the block-based and microPython programming. Block-based programming is a language especially developed to learn and practice the basics of programming by dragging and dropping blocks.

ES Neuron platform modules can be programmed with block-based programming in ES Block .

ES Codey can be extended with the ES Neuron platform as external electronic sensors and actuators, and programmed in ES Block in both block-based and microPython programming.

# Primary education

# ES Codey

## ES Codey Single pack



ES Codey  
Bluetooth Dongle Edition

## ES Codey Education Pack [6 in 1]



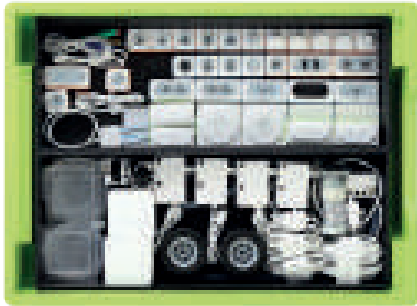
Wireless Dongle



ES Codey  
educational pack

# ES Neuron

## ES Neuron Creative Lab Kit 2.0



ES Neuron  
Creative Lab Kit 2.0

