



Picar-X AI Video Robot Car Kit

Introduction

PiCar-X is an AI-powered Raspberry Pi smart car that integrates multiple large language models (including ChatGPT-4o, Gemini, Grok, DeepSeek, and others) with OpenCV, MediaPipe, speech-to-text (STT), and text-to-speech (TTS) technologies. It enables advanced vision and voice interaction, allowing the robot to see, listen, speak, move, and “think” like an intelligent companion. Designed for students, educators, and engineers, PiCar-X is an ideal platform for learning AI, robotics, and machine learning on Raspberry Pi.

Key Features:

Perfect for learning
robotics, AI, and
creative
programming

01

Multi-LLM Intelligent Interaction: Supports multiple AI models such as ChatGPT-4o, Gemini, DeepSeek, Qwen, and local LLMs, enabling natural conversations, visual Q&A, math problem-solving, and gesture recognition.

02

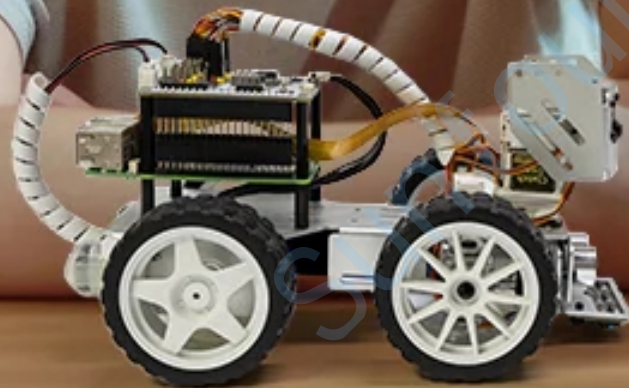
AI Vision & Voice Capabilities: Integrates OpenCV, MediaPipe, STT, and TTS to provide real-time image recognition and voice interaction for a fully interactive AI robot experience.

03

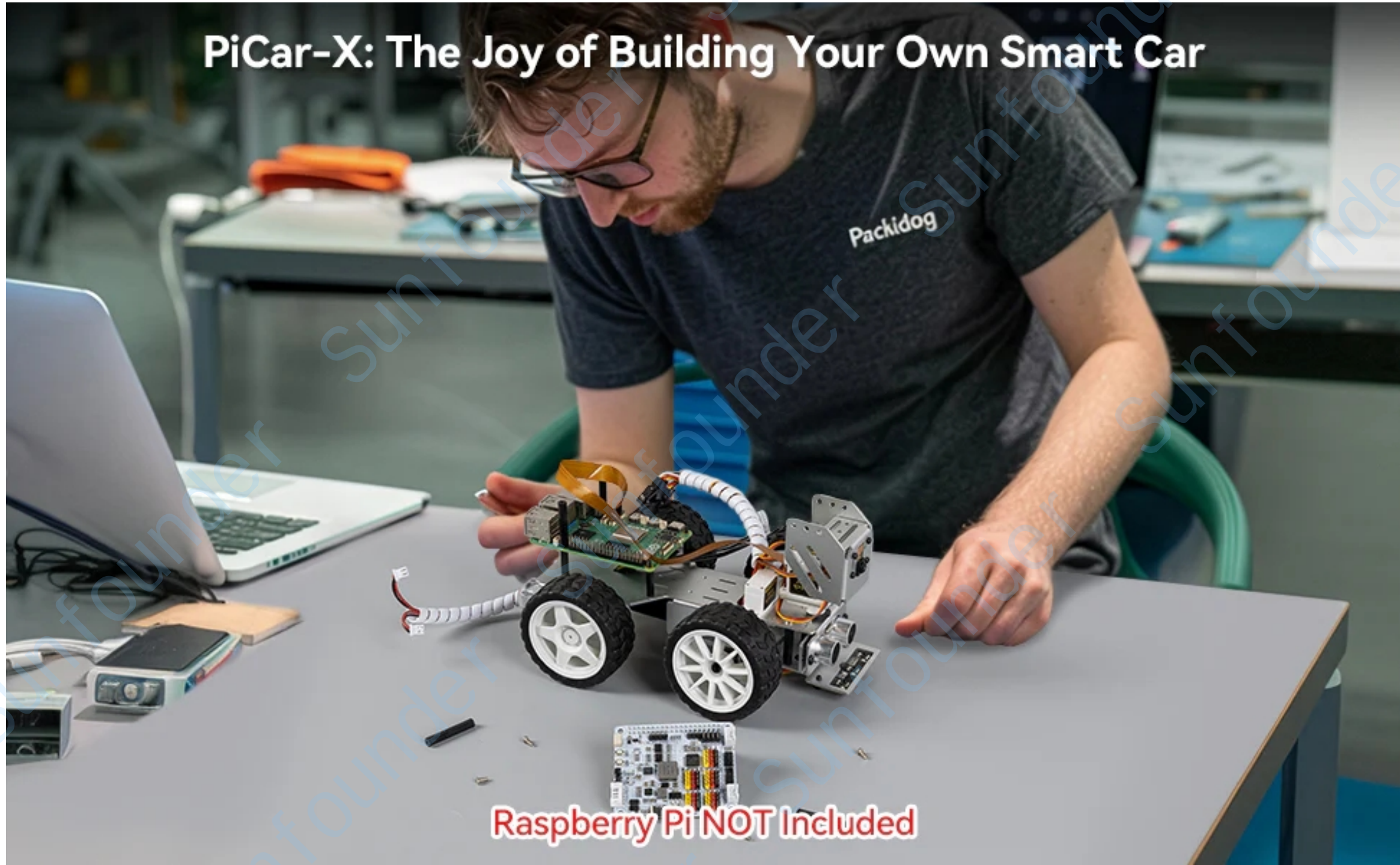
AI Interaction: ChatGPT-4o support for natural conversations and programming guidance

PiCar-X: AI-Powered Learning with Raspberry Pi and Multi-LLMs

- Compatible with Raspberry Pi 5/4/3B+/3B/Zero 2 W
- Supports multiple LLMs – ChatGPT-4o, Gemini, Grok, DeepSeek, Qwen, Doubao, Ollama (Local LLMs), and more
- TTS & STT & Video Recognition
- Ideal for Students, Teachers, and Engineers



PiCar-X: The Joy of Building Your Own Smart Car



Raspberry Pi NOT Included

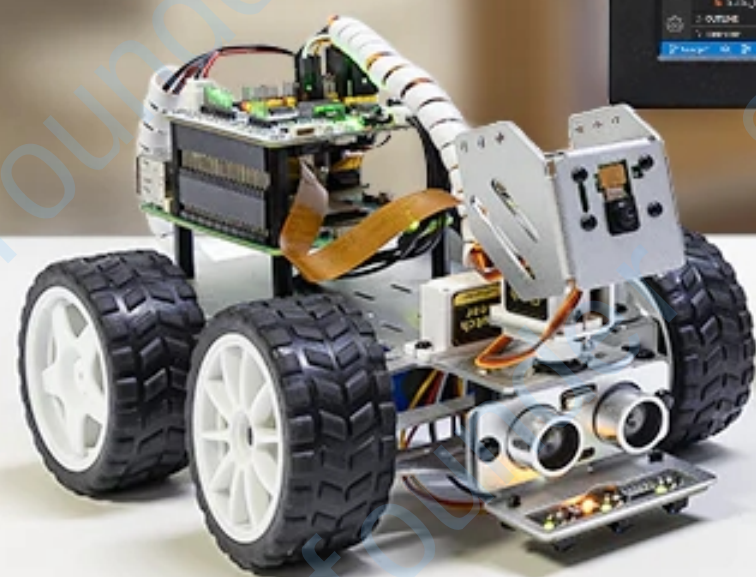
Raspberry Pi Smart Car: Coding Picar-X with Python



Family Coding Time: Programming PiCar-X with Scratch



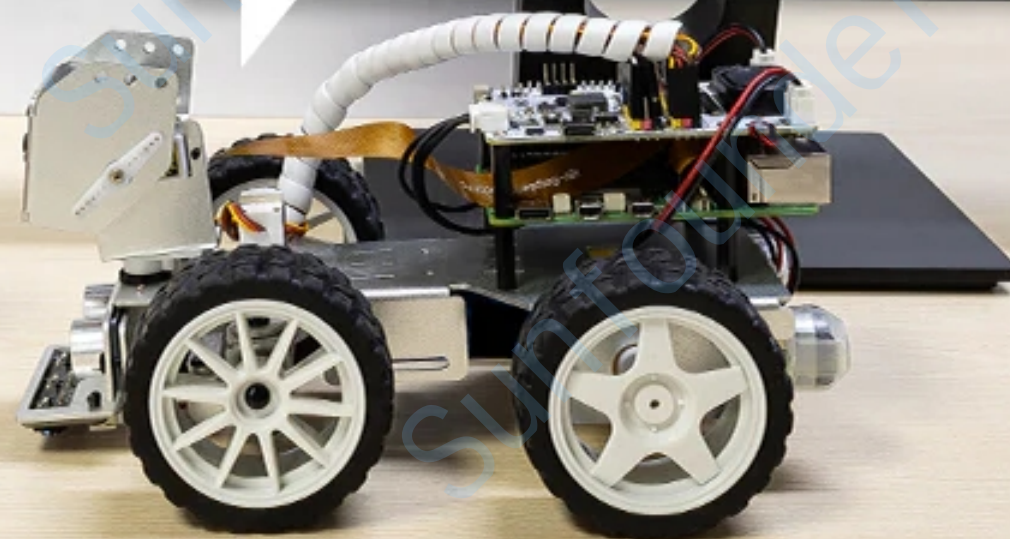
PiCar-X: Enhancing Visual Recognition with Raspberry Pi



Picar-X: Unlocking AI Possibilities with Raspberry Pi and Multi-LLMs

What should you do when you see this sign?

Stop completely, check for safety.



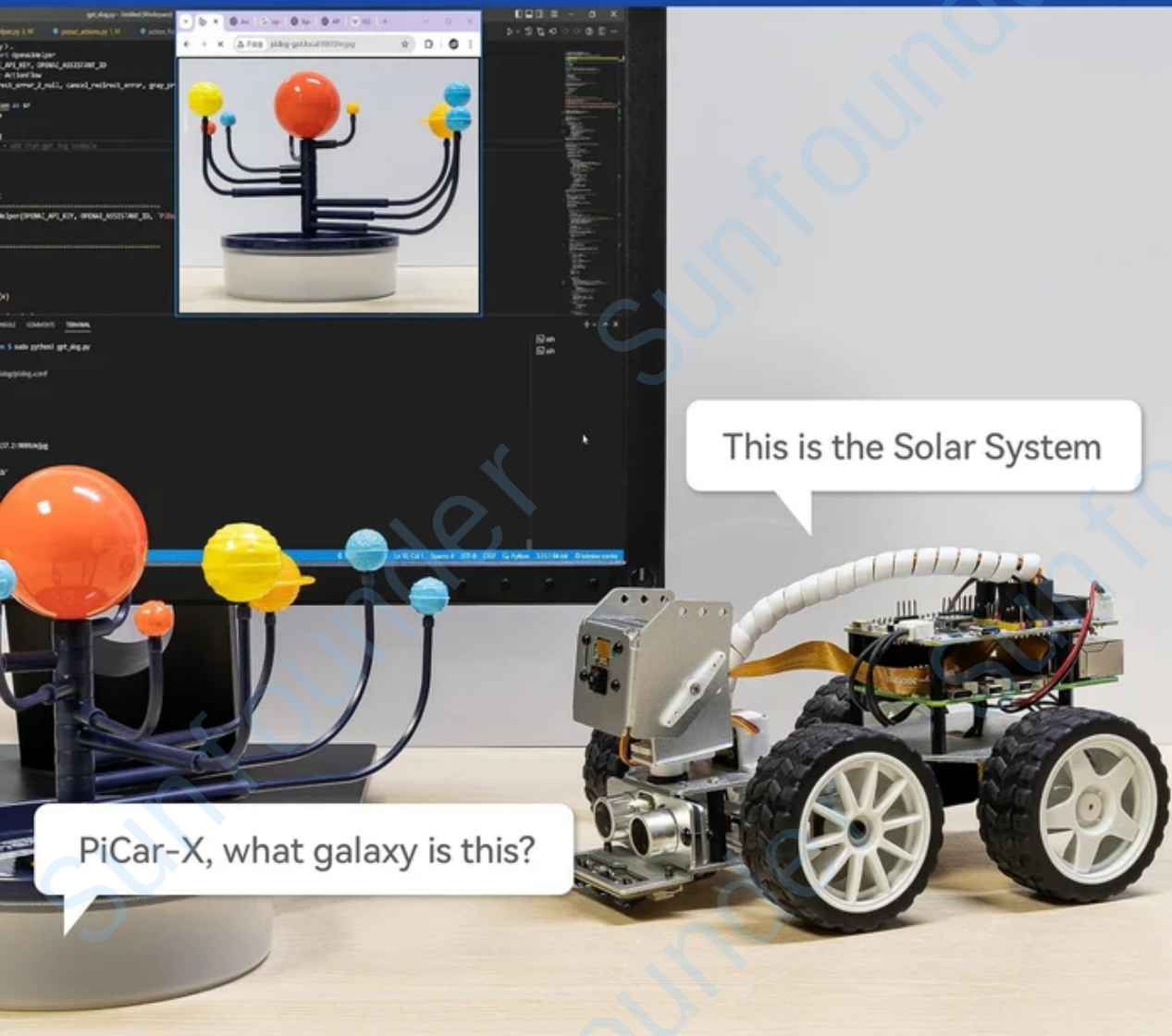
See. Talk. Think. Drive - Powered by ChatGPT-4o, Gemini, and Other LLMs



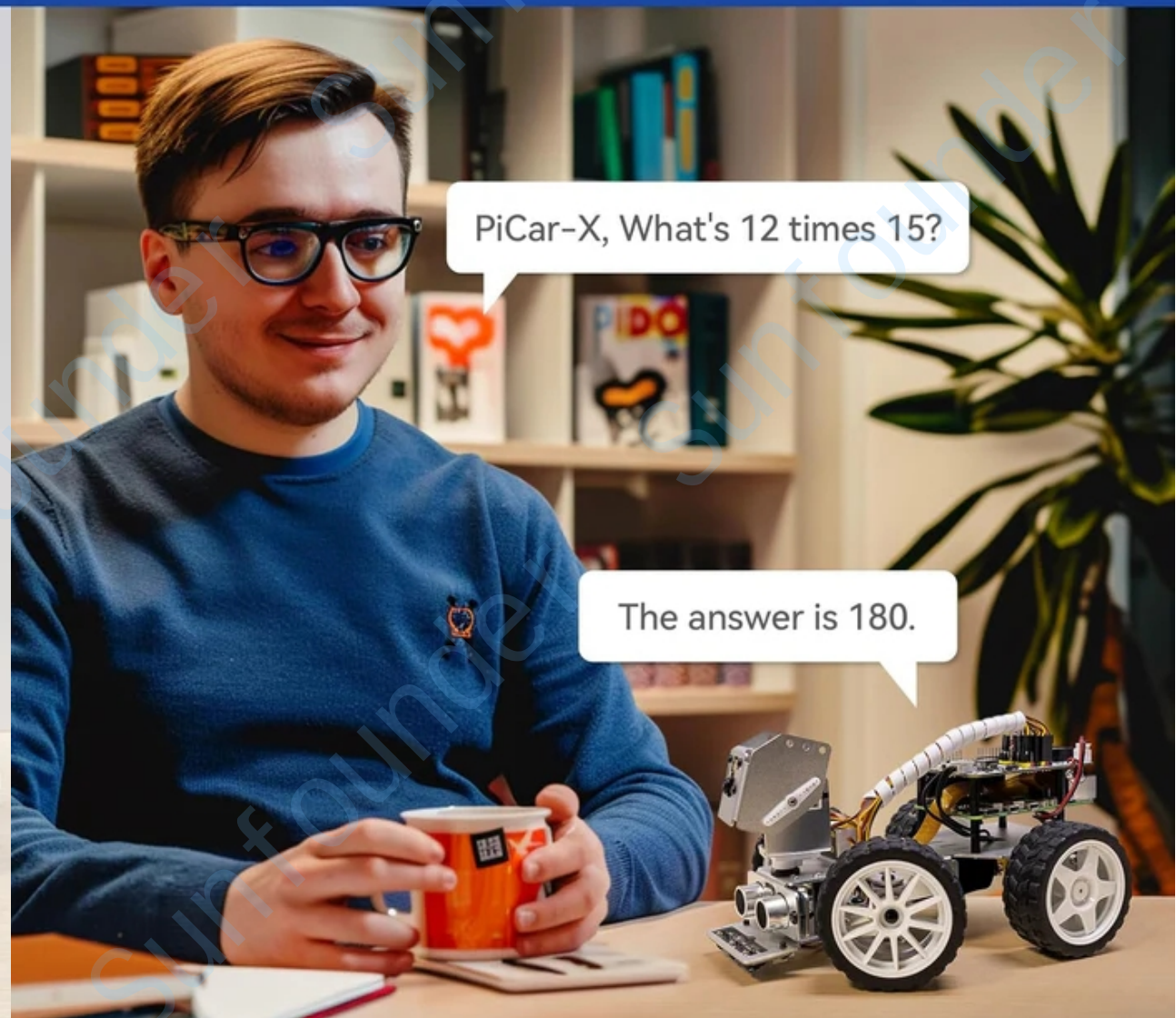
Building PiCar-X: The Joy of Crafting Your Own Intelligent Vehicle



Interactive AI Learning with PiCar-X The Future of Education



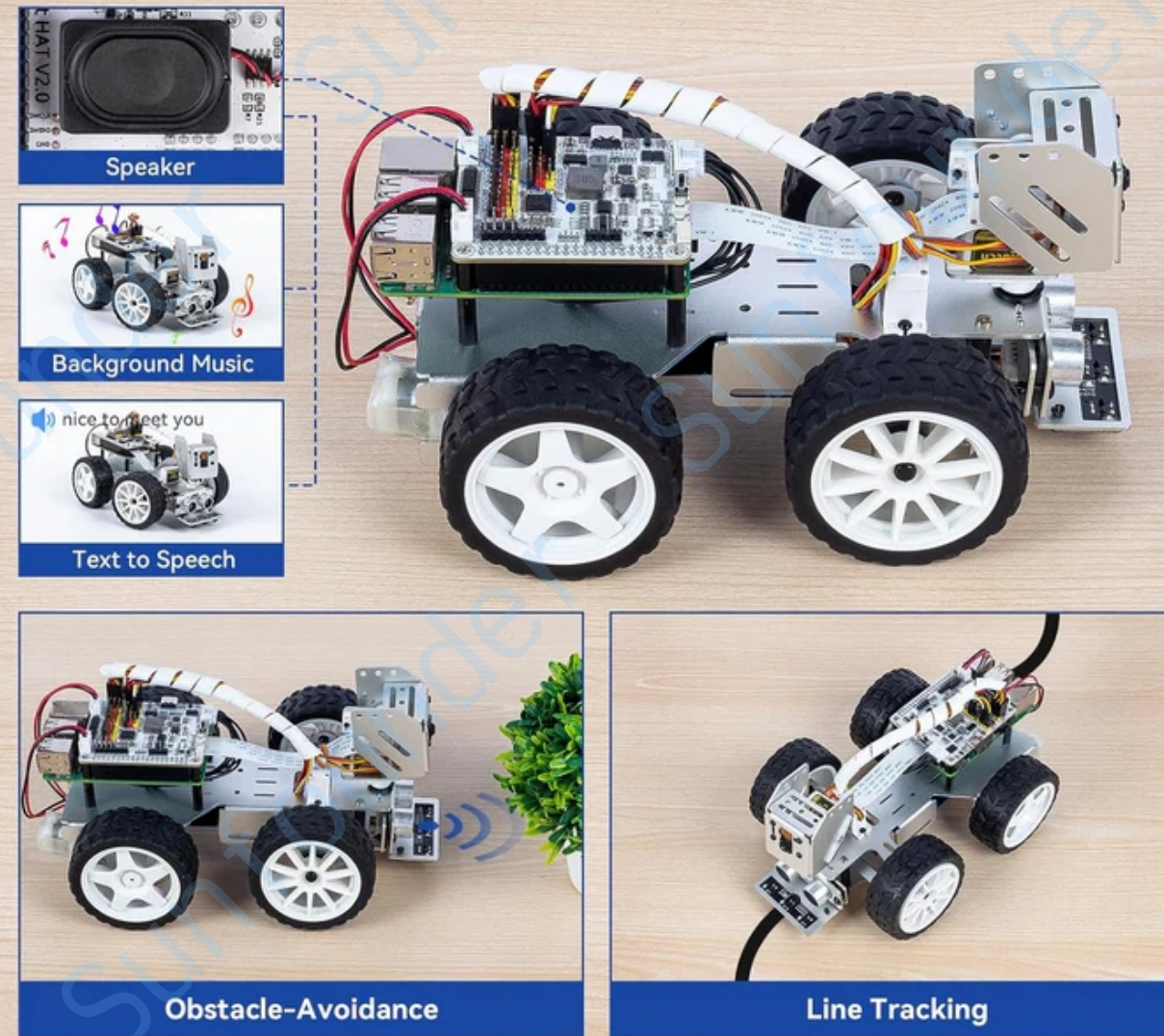
Unlock Intelligent Interactions with PiCar-X and Multi-LLMs



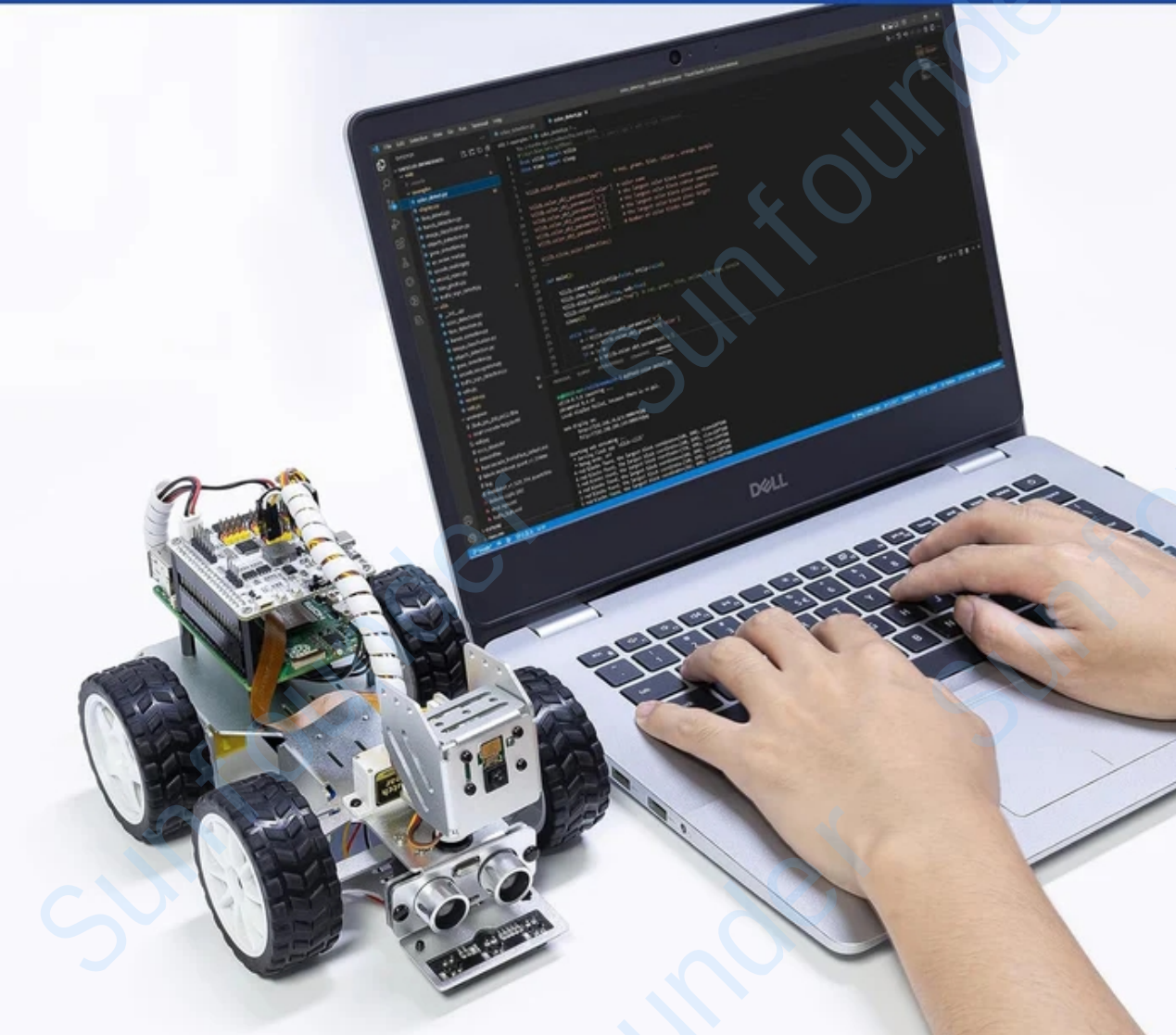
AI Vision Recognition with OpenCV and MediaPipe



A Multifunctional Raspberry Pi Car with Advanced Features



Hands-On Python Coding with PiCar-X



Educational Scratch Programming with PiCar-X



Specification

Product Specifications:

Compatible motherboards	Raspberry Pi 5/4/ 3B+/ 3B/ Zero 2W (Not Included)
Camera	5 Megapixels
Sensors	Ultrasonic/ Grayscale
Modes	Line Following/ Obstacle Avoidance/ Object following
Charging Time	About 2-3 Hours
Servos	3 x 9g Servo
Programming Languages	Python/ Scratch

Population	Ideal for Beginners and Engineers
Curriculum Link	picar-x-v20.rtfid.io (15 Video Courses Included)
Metal Structure	Aluminium Alloy
Expansion Board	Robot Hat
Video Recognition	Face Recognition/ Colour Recognition/ Gesture Recognition/ Road Sign Recognition
Motor	2
App	SunFounder Controller & Ezblock



Online Tutorial:

ONLINE TUTORIAL FOR Picar-X





**Thank you for
your time and
attention.**