

# SUMMER CAMP 2026

FUTURE READY

AGES 7-9



AL HABTOOR  
POLO RESORT

WEEK	STEM CHALLENGE 9:30AM - 10:30AM	ROBOTICS MISSIONS 10:45AM - 12:15PM	CREATIVE CODING 12:45PM - 2:00PM
<b>Week 1</b> Jul 6 - Jul 10	<b>🔊 Sound Architects</b>  Students engineer sound building instruments, making vibrations visible, and constructing a working speaker from scratch. If they can hear it, they can build it.	<b>⚡ Energy Lab</b>  Students build solar stations, wind turbines, and solar powered racing cars measuring real energy output and racing their results against each other. Every build answers the same question: which energy source wins, and why?	<b>🐍 Python Pioneers</b>  Students take their first steps into real text-based coding, drawing shapes, creating patterns, and building simple games using Python's Turtle library. No more drag and drop, this is how real programmers write.
<b>Week 2</b> Jul 13 - Jul 17	<b>🌿 Bio-Inspired Builders</b>  Nature has been solving engineering problems for millions of years. Students reverse-engineer gecko feet, spider webs, and bird wings to build their own nature-inspired creations.	<b>🏠 Smart Spaces</b>  Students wire up their classroom with voice-activated lights, temperature-sensing fans, automatic doors, and intruder alarms, all built and programmed by them. Every sensor they add makes their space a little smarter and a little harder to sneak past.	<b>🦋 Glitch Hunters</b>  Students are handed broken Scratch projects and one mission: find the bugs and fix them. Every glitch they crack makes them a sharper, more confident programmer.
<b>Week 3</b> Jul 20 - Jul 24	<b>⚡ Circuit Breakers</b>  Students bring paper to life with copper tape, LEDs, and programmable light using the Chibi Chip. From greeting cards to glowing 3D cubes, they discover how electricity flows and how to control it.	<b>⚙️ Gear Up</b>  Students build real working machines, dragsters, flywheelers, and motorised cars, discovering how gears change speed & power with every swap.	<b>🕵️ Secret Agents</b>  Students crack codes, encrypt secret messages, and uncover how cybersecurity protects information in the real world. By the end of the week, they know how hackers think — and how to stop them.

Camp timings: 9:30am to 2pm

Drop-off timings: 8:30am onwards

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