

CODING & ROBOTICS CLUB



GROWN UPS



1

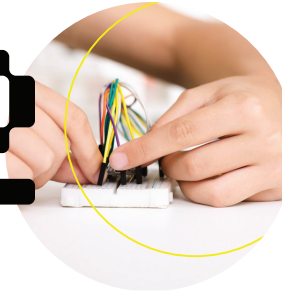
CODING CURRICULUM

This brilliantly structured 1.5 hours/week course will provide you with advanced programming skills starting from visual block coding, HTML, CSS or JAVASCRIPT and moving at the end of our curriculum path towards PHP and PYTHON. But that's not all! You'll learn to manage (of course) a server, databases, understand what to do with an API or learn to install, tweak and upgrade the two best CMS in the market.

ROBOTICS CURRICULUM

Robotics is the other half of our course. During this course you'll touch on robotics every other month. Our robotics curriculum will start by practicing with Lego WeDo 2.0.; the most basic of the robotics sets will teach you how to program sensors, engines and much more. Arduino will complete your robotics training, with it you'll learn electronics and solve a lot of super cool challenges.

2



3

+ MEDIA LITERACY

All our curriculum paths include a robust training for our students to fully understand the internet environment in general.

Develop the necessary skills to become self-reliant, have an in-depth understanding of how so-called 'fake news' are technically created, how online media can affect your decision-making or the true (and technical) meaning of hacking among other social technology-related topics.

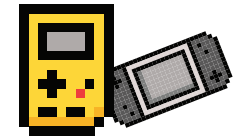
YOU WILL ALWAYS BE AHEAD OF THE REST

For a student that joins our Coding & Robotics club at age 13, she or he will learn:

- + Basics of coding: LOOPS, IF/THEN statements, VARIABLES, etc.
- + MIT's Scratch software
- + A deep understanding of LEGO WeDo 2.0 (and other LEGO robotics versions)
- + The basics of engineering (engines, cog wheels, robust-structure creation, etc)
- + Understand how a video game is made and programmed.
- + A good understanding of how the internet works (physically and programmatically)
- + A good understanding of how a robot works.
- + Events, conditions and actions in the programming environment
- + Work with multiple scripts, hubs or engines in a robot
- + Use and programming of movement sensors in robotics.
- + Proficiency in HTML programming language
- + Proficiency in CSS programming language
- + Proficiency in JAVASCRIPT programming language
- + Python and PHP programming basics
- + Understanding of databases
- + Web development best practices
- + Webshop creation
- + Wordpress Vs. Drupal CMS. Installation and programming tricks
- + Basic Electronics
- + Advanced robotics: construction and programming with Arduino.
- + App development.
- + Usage and learning of other more advanced internet-related concepts and softwares.
- + Online marketing basics (best practices, platforms, etc)
- + Web design basics.
- + Game development.



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max
10
students
PER GROUP

1.5
hours of coding
PER WEEK*
* except holidays

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