

ROBOTICS & AI STUDIO (FAST AND CURIOUS) | Target Grade: GS, Cycle 2 (CP, CE1, CE2), Cycle 3 (CM1, CM2), Collège

Staff & External Provider

- **Organization:** Fast and Curious (Founded by World Robotics Championship Title Winner 2015 & World's Best Robotics Coach 2019, Software Engineering background).
- **Coaching Staff:** Riyam Mohamad (English, Arabic) & Nadine Halabi (French, English, Arabic). Leadership holds extensive expertise in competitive robotics, STEM curricula (mBot, VEX, LEGO), and professional generative AI media production.
- **Equipment & Resources:** All robotics kits, digital platforms, and AI media production tools are fully provided by Fast and Curious.

Description & Overview

Offered across primary and lower secondary cycles (GS through Collège), this dual-track STEM program combines hands-on robotics engineering with creative generative AI media production. Students progress from foundational mechanical assembly and block-based coding to sensor integration, autonomous navigation, prompt engineering, and ethical AI content creation.

What Students Do (Classroom & Lab Actions)

- **Robotics Track:** Assemble mechanical parts, connect motors and sensors, write control code, run obstacle tests on mats, troubleshoot build/logic failures, and present solutions in small teams.
- **AI Studio Track:** Plan creative concepts, craft and refine prompt designs using generative AI media tools, evaluate visual outputs, assemble final image/video media projects, and discuss responsible AI usage.

Skills & Competencies Developed

- **Robotics & Engineering Logic:** Ages 6-8 focus on simple mechanics and sequencing; Ages 9-11 introduce sensor logic, autonomous obstacle reaction, and testing iteration.
- **Generative AI & Media Literacy:** Ages 6-8 build creative awareness; Ages 9-11 develop prompt design skills; Ages 12-14 master creative direction, media editing, and ethical AI evaluation.
- **Collaboration & Digital Citizenship:** Developing computational thinking, peer troubleshooting, team-based presentation, and digital technology integration.

Final Deliverables & Outcomes

- **Robotics Showcase:** An end-of-cycle robotics demonstration where students present their custom builds and autonomous challenge completions to parents and staff.
- **AI Studio Exhibition:** An end-of-cycle digital media exhibition showcasing original student AI-generated images and short video projects.