ROBOTICS PROJECTS TRACK

Gr. 5 to 8

NEW Exciting Platform Low Cost, but High Expandability

Instead of \$400+ LEGO, only approx. \$150-\$200 Scaffolding complexity Math as a learning Tool Higher Order of Thinking Focus on Automation

Level B to I C/C++ (with simplified libraries)

Level II+ C/C++ (with native Arduino)

CStorming Robots

ROBOTICS PROJECTS TRACK

Gr. 5 to 8

B – I

Adapt basic engineering process – from Design with flowchart to simple trouble-shooting.

> 90% programming development, 10% mechanical

||+

Continue to delve more programming techniques and math application solutons.

More sophisticated robotics projects with performance and expandability



COMMON CORE GR. 8 – 12

Common Core – Algorithms in C/C++ B & I Core Foundation for participating in various advanced electives

COMPUTER SCIENCE TRACK

ALGORITHMS IN C/C++

LEVEL B TO IV Focus on Computational Thinking

COMPUTER ENGINEERING TRACK

ROBOTICS WITH ELECTRONIC

LEVEL B TO II

(minimum prerequisite: ALGORITHMS IN C/C++ LEVEL I)



COMMON CORE GR. 8 – 12

Electives (with prerequisites)

COMPUTER SCIENCE TRACK

Electives: SOFTWARE ENGINEERING COMPETITIONS – A.C.S.L., Satellite Programming, Robotics Simulation

COMPUTER ENGINEERING TRACK

Electives: ROBOTICS COMPETITIONS with opensource hardware, software Heavily focus on fullautomation with advanced techniques

