

Empower Your Science Curriculum with Robotics. ROBOTERRA's mission is to inspire creativity and ingenuity via robotics education to everyone.

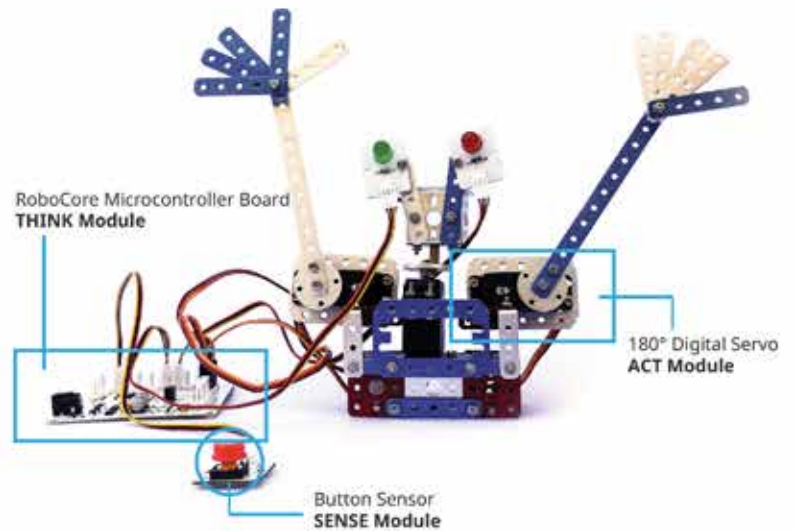


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Origin Kit: All You Need To Build Your Robot

ROBOTERRA Origin Kit is a beginner-friendly robotics kit. Students between 10 to 18 are able to learn programming basics, construct their own robots and bring them to life. The Origin Kit includes all the components needed to build exciting and functional robots, including the RoboCore controller board, sensors and actuators, anodized aluminum metal parts, nuts, screws, and easy-to-use tools.

www.roboterra.com/productlist/roboterra-origin-kit



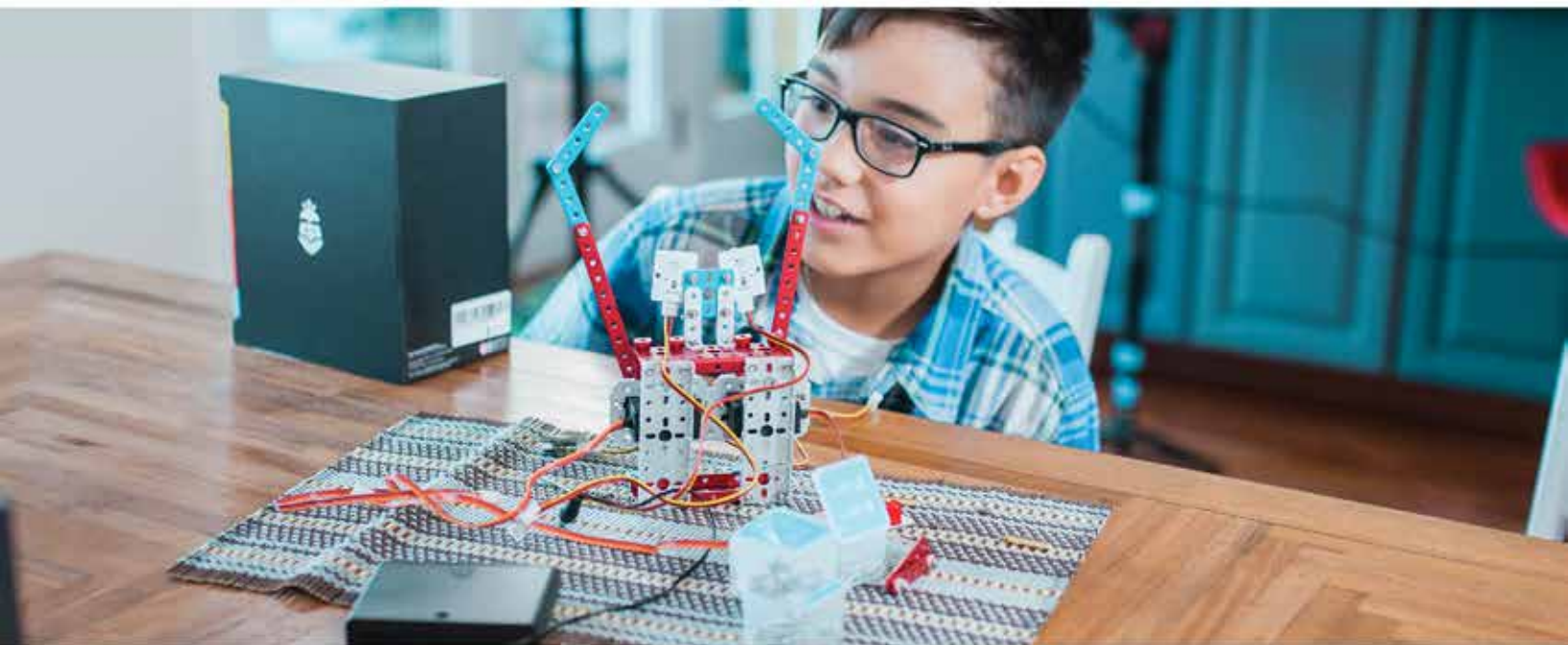
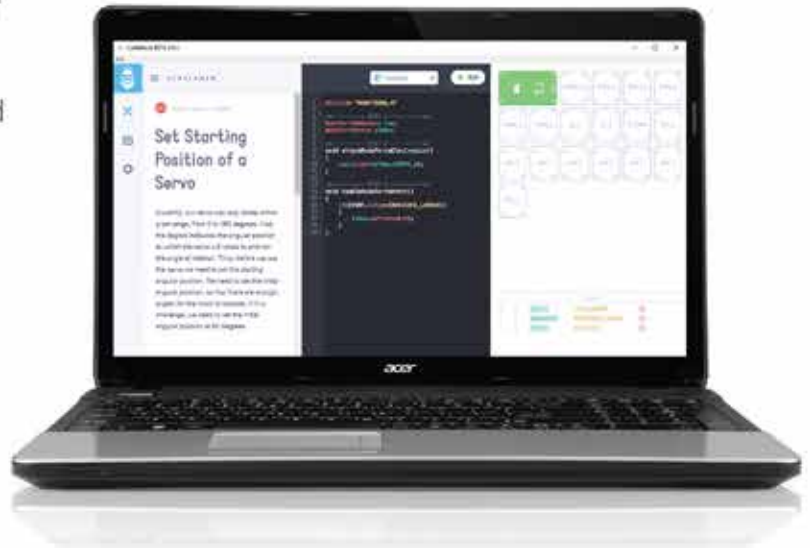
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CastleRock Online Learning Platform: Supporting Any Teacher to Teach Programming & Robotics

CastleRock Online Learning Platform offers a complete robotics curriculum for students to learn programming and machinery. CastleRock makes it easy for anyone to teach robotics or learn to build their first functional robot. Step-by-step tutorials are available for every project, and they are designed to align with the Next Generation Science Standards.

- Exposing students to C++ programming
- Real time feedback
- Step-by-step instructions

www.roboterra.com/castlerock



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Curriculum: Go Further with CCSS and NGSS



- English/Language Arts
- Mathematics



- Physical Sciences
- Life Sciences
- Earth and Space Sciences
- Engineering, Technology, and Applications of Science

www.roboterra.com/curriculum

Stage 1:
Thinking about problems

Single Component: <ul style="list-style-type: none"> • Core • LED • Sensor • Servo • Timing 		
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Stage 2:
Meeting Success with Constraints

Combining Components <ul style="list-style-type: none"> • Sensor & LED • Servo & Timing 	Control Statements <ul style="list-style-type: none"> • If/Else • Switch/Case • For/While • Loops 	
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Stage 3:
Research and Design

Multiple Components <ul style="list-style-type: none"> • isFrom(); • getData(); 	Defined Projects <ul style="list-style-type: none"> • Set Build • Set Objective 	Coding Freedom
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Stage 4:
Creative Freedom for Objectives

Defined Objective	Open Projects <ul style="list-style-type: none"> • Custom Build • Coding Freedom 	
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Connected to make a national impact.

Book: Learn from champion teams on how to start, grow and win. Detailed guidance to recruit students and mentors, marketing strategies, and right structure to succeed.

roboterra.com/book/



Teacher Training: Fun, accessible, and useful. We offer training and resources for teachers of the new CastleRock computing curriculum.

roboterra.com/teacher-training/

Community (Expected Spring 2017): Educators and makers will be collaborating in the CastleRock online community share their original robot projects and stories.

roboterra.com/community/

Data (Expected Spring 2017): ROBOTERRA's Hardware-Based Objective Cognitive-Patterns of Students (Robo-BOCS) is bringing long-expected objectivity and much further enhanced data quality to admission credentials, that being lacked in traditional testing products.

roboterra.com/data/



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Student Robotics Hackathon

Free 5-hour robotics hackathon for 7th-12th grade students to learn coding and build robots

Two students will be matched up as a team, and they will work collaboratively on one robotics project. We offer tools from the all-in-one ROBOTERRA Origin Kit, but beyond that, every student needs to bring their own personal computer (Mac or PC), and set up the CastleRock Online Learning Platform as instructed.



Friendship
& Teamwork



Hands-on
Creativity



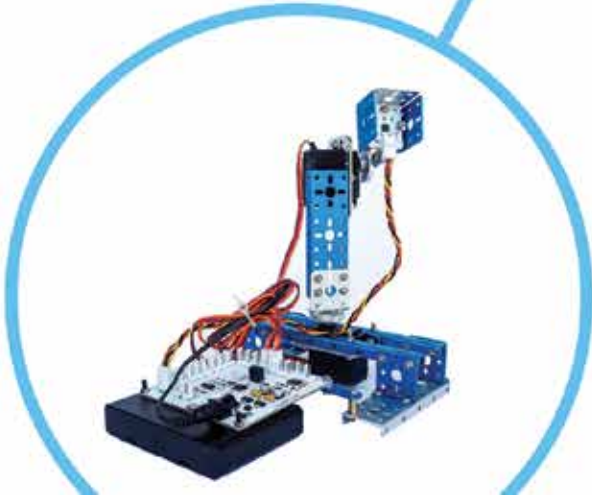
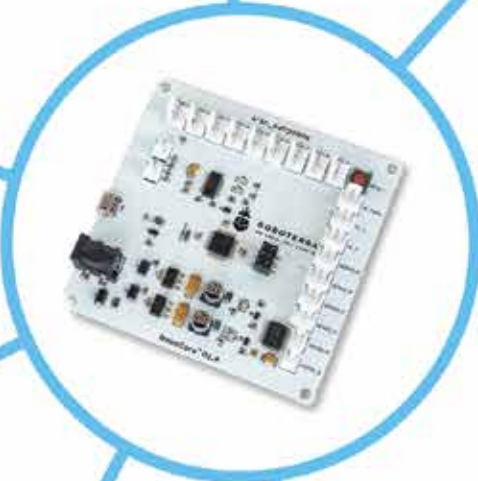
Project-Based
Learning



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We're Building The "T" in STEM Education

Robotics possesses a wealth of educational value on its own, but only when paired with the right intangibles can robotics drive STEM innovation. When students apply their own creativity, ingenuity, persistence, and enthusiasm to their work, they build more than just a robot; they contribute to a developing STEM field.



ROBOTERRA's educational vision is not only to put high-quality robotics in the hands of young learners, but also to drive the development of robotics as a pillar of STEM.



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Educator
Stephan J. Griffith
Five Forks Middle School

“ ROBOTERRA has provided me “
an innovative approach to
problem-solving while adhering to
STEM standards for the classroom.
It allows my students to get the tool
they need for the future.

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