

Cyber Robotics 102

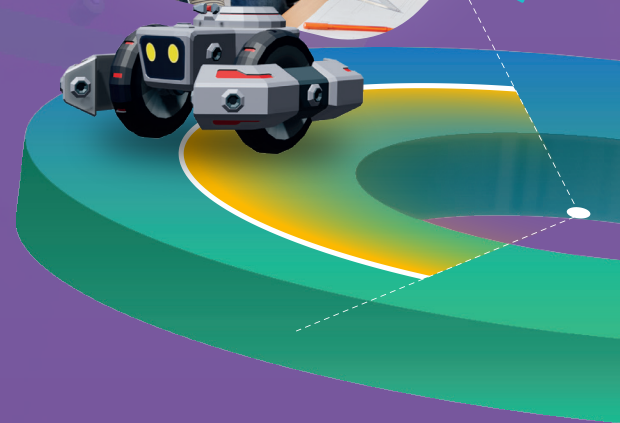
Next-level coding and robotics for middle and high school students

Put on your thinking caps and buckle up! Cyber Robotics 102 continues the gamified ride through the world of computer science and robots - this time around with an extensive focus on variables, robotics-related algorithms, and physics in a changing obstacle environment. Promotes critical thinking, investigation, and problem solving. Suitable for a wide age range.

Suggested for
Grade 8-12

 Blockly


20-25 hours of activity



**For teachers of all
backgrounds collaboration**

Easy, web-based access

**Encourages peer
collaboration**



Cyber Robotics 102 is a follow-up course to Cyber Robotics 101 and is intended for students with a basic understanding of programming. The series of short structured missions allow students to advance at their own pace.


STUDENT OUTCOMES:

- + Extensive use of variables
- + Implementing robotics related algorithm
- + Coding engineering control algorithms
- + Understanding core concepts in physics
- + Putting critical thinking into action for debugging
- + Choosing the most efficient solutions
- + Learning engineering control systems

All lessons include guided walkthroughs with clear learning objectives.

CSTA and NGSS alignment

TEACHING RESOURCES:

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- + Teachers' guide
 - + Instructional videos
 - + Suggested solutions (for teachers)
 - + Slide deck for classroom activities
 - + Reflection questions for summative assessments
 - + Class conclusion questions
 - + Learning progress heatmap
 - + Knowledge base and help desk



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