Charleston Learning Center
Education, Training, Community

Everyday STEM Camp
Explore, Collaborate Design, Build, and Code Your Own Robot

Summary: The Everyday STEM Camp for middle schoolers offers an exciting and hands-on exploration of the principles, applications, and creative possibilities of STEM fields. STEM education is essential for student success in today's digital and innovation-driven world, as it intersects with nearly every area of academic and career development. This camp is designed to ignite curiosity, foster collaboration, and provide participants with a strong foundation in problem-solving and critical thinking skills.

We believe in meeting students where they are developmentally to maximize their learning potential. Whether students are new to STEM or have prior experience, they will find opportunities to grow through engaging challenges and hands-on activities tailored to their skill levels.

Topics to be covered:
- What is STEM, and how does it apply to everyday life?
- What is a robot?
- Improving a design
- Troubleshooting and debugging
- Testing and evaluating a solution
- Soft-Skills/Mental Performance

What students will learn: By the end of the camp, students will design and build robots that incorporate motors, sensors, lights, and sounds. They will learn to write pseudocode, use conditional statements and loops, and apply computational thinking to debug and solve problems. Participants will work on a mix of guided and open-ended challenges, culminating in a final presentation to showcase their creativity and technical skills.

About your presenter: Carla Ferrette-Clark is a retired Air Force Technical Sergeant with 20 years of service and a Career Technical Education (CTE) educator at Military Magnet Academy. She holds a B.S. in Business Management and a graduate degree in Human Services Counseling. With over eight years of experience coaching award-winning robotics and cybersecurity teams, Carla is passionate about empowering students through STEM education. Her dedication has inspired students to pursue STEM careers, earn scholarships, and achieve national recognition.

Vitals:

Cost:	$249	Age Group:	Middle School students (11-14)
Camp start time:	9:00am	Computer:	Provided
Camp end time:	3:00pm	Scholarships:	Available
Class size:	25 persons		

Location: 4 Conroy Street, Suite A, Charleston, SC 29403
Parking: Charleston Tech Center Garage