

Vivian Stepp

STEM EDUCATOR | LEARNING EXPERIENCE & INSTRUCTIONAL DESIGN

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PROFESSIONAL SUMMARY

Science and STEM educator with 10+ years of experience creating inquiry-driven, project-based learning for middle grades. Blends classroom teaching, instructional design, robotics, coding, differentiated instruction, and assessment-informed planning to make technical learning accessible and motivating.

CORE SKILLS

Instructional Design | Curriculum Development | Learning Experience Design | Project-Based Learning | Differentiation | Assessment & Data Analysis | K-12 STEM | Robotics & Engineering | LEGO Mindstorms NXT/EV3/SPIKE Prime | Scratch | LabVIEW | FIRST & Botball | Club Leadership

PROFESSIONAL EXPERIENCE

SCIENCE TEACHER

Jul 2023 - Present

Houston Independent School District | Houston, TX

- Design and facilitate middle school science learning experiences that combine inquiry, project-based learning, clear scaffolds, formative checks, and hands-on builds.
- Create student-friendly lessons and teacher-ready materials that make complex STEM concepts accessible to diverse learners.
- Mentor students in Saturday robotics programming and competition preparation for FIRST and Botball programs, strengthening technical skills, teamwork, and perseverance.
- Sponsor a 4-H Garden Club serving approximately 50 middle and high school students through leadership development and practical gardening experiences.

SCIENCE TEACHER

Jul 2018 - 2023

The Main Street Academy | College Park, GA

- Planned and delivered standards-aligned science instruction through discussions, investigations, models, projects, and other hands-on learning methods.
- Differentiated lessons and supports to meet varied learning needs while maintaining clear expectations for student engagement and achievement.
- Administered formal and informal assessments, analyzed performance data, and adjusted instructional plans to improve content mastery.

ROBOTICS INSTRUCTOR

Jun 2016 - Oct 2018

STREM HQ | Atlanta, GA

- Planned and delivered differentiated grades 4-8 lessons in simple machines, mechanical design, robot construction, and LEGO Mindstorms programming.

ROBOTICS ALLIANCE ADMINISTRATIVE LEADER

May 2012 - Aug 2018

100 Black Men of Atlanta - 100 Scholars Robotics Alliance | Atlanta, GA

- Coordinated year-round and after-school robotics programming for FIRST LEGO League, FIRST Tech Challenge, and FIRST Robotics Competition participants in grades 4-12.
- Developed and presented robot programming lessons using LabVIEW and supported students during build, practice, and competition activities.

EDUCATION

M.S. in Instructional Design - Grand Canyon University (in progress)

Expected Nov 2026

B.S. in Education - Georgia State University (Middle Grades Math and Science)

2015 - 2018

A.S. in Middle Level Education - Atlanta Metropolitan State College (Math and Science, Grades 4-8)

2013 - 2015