Innovation Proposal:
First Robotics Competition

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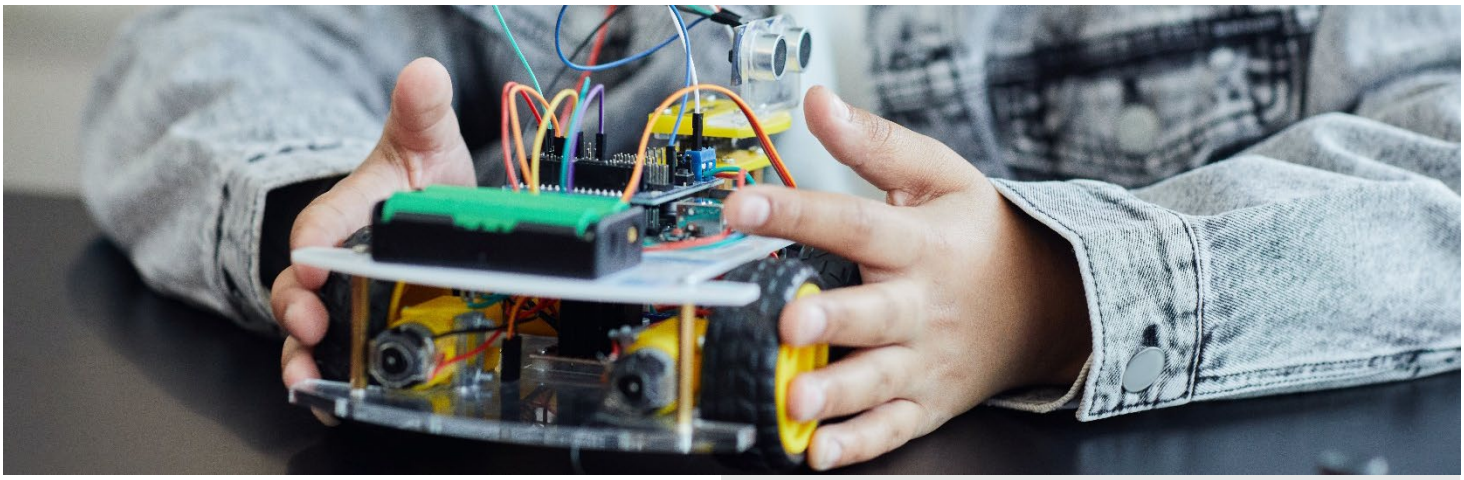

Proposed Innovation

Students will design, build, program, and drive a robot to compete in a robotics competition. Students will use computer-assisted design (CAD) to develop a prototype, fabricate mechanical and electoral systems, and program their robot using Python. After refinement, students will travel to a competition to compete against other robotics teams.

Purpose and Potential

The goal of this alternative curriculum is to foster science, engineering, math, and technology (STEM) skills while allowing students to lead project management during the engineering design process. Students will gain hands-on project-based skills including collaboration, organization, time management, marketing, and communication skills.

Courses Include

after school sessions three days a week and some Saturday instruction from August through April.

Student Outcomes

will be measured on a variety of skills at the start and end of the project including leadership, CAD, program, design, marketing, and fabrication skills.

Funding

Grant funding will be used for materials including aluminum stock, electric motors, control boards, pneumatic cylinders, and various hardware.

Under House Bill 386, Local Education Agencies can approve up to $5,000 in grant funding for innovation programs. The innovation outlined here is one example that has been approved for implementation. Learn more at schools.utah.gov/ulead

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