

509 - Robotics Essentials

Project Description

This project is intended as an intermediate-level project. Younger members can take the project, but the project helper will need to be more involved. This project requires fine motor skills, attention to detail, and interest and experience with building and coding. No previous knowledge of robotics is required. Members will use the website go.osu.edu/4hlego or go.osu.edu/4hvex to complete several of the activities.

REQUIREMENTS: a computer and either a LEGO SPIKE Prime or VEX IQ educational robotics kit.

To Complete the Project

1. Complete all 10 activities.
2. Complete all Talking It Over questions.
3. Take part in at least 2 learning experiences.
4. Take part in at least 2 leadership/citizenship activities.

Take part in a project review. If you choose not to participate in judging at the fair, make arrangements to discuss and review completion of your project with your advisor.

Judging of this Project

Interview judging for this project will be on Non-Livestock judging day at the Jr. Fair building. Please refer to the 4-H calendar for judging dates.

*Requirements for Judging:

1. Completed project book.
2. Custom robot and a display of something learned in the project.

Project Display

Prepare a display that shows the judge and fair visitors what you learned and accomplished in your project. **YOU MUST BRING YOUR CREATED ROBOT TO SHOW THE JUDGE.** You can also bring other objects used or created, experiments performed, visuals and other items used to complete project book activities, or a poster showing project activities and results. Your project book or your robot cannot serve as your project display.

Display Areas

At the Wood County Fair, your 4-H project will be displayed in the Wood County Jr. Fair building in your 4-H Club assigned booth.

Project Pick-Up

You must pick up your project display at the end of the fair or arrange for someone to get it for you. Please refer to the Wood County Fair book or the 4-H Newsletter for project release times. Projects not picked up by 3:00 p.m. on the last day of the fair will be disposed of.

***Ohio State Fair Project**