



COLORADO STATE UNIVERSITY
EXTENSION

Robotics & Engineering

Project units are designed for members 8-18 years old.

Unit 1-3 - Junk Drawer Robotics

Inspiring youth to:

- Use everyday items to master robotics skills
- Learn about robotic arms that can complete tasks
- Learn about robotic movement
- Learn about mechatronics, electricity, and computer programming.

Unit 4-6 - Platform Robotics

Inspiring youth to:

- Learn to use a robotics kits such as:
 - Arduinio
 - EV3
 - Brushbot
 - Hexy
 - Pushbutton Programming
 - Cubelets
 - Robotic Arm Edge
 - Spark Fun RedBot
 - WeDo
 - Multiplo
 - NXT
 - TETRIX



Unit 7 - Robotic Teams

Inspiring youth to:

- Participate on a robotics team
- Use skills learned in previous units to build a robot and compete

Project Tips:

- Take part in at least two leadership experiences each year
- Be sure to include your e-record in a secure binder with your exhibit
- If you plan to take a unit for more than one year, make sure your exhibit is different each year
- Enter your exhibit in the county fair

Resources:

- Exhibit & Judging Requirements
- Record Books
- Manual Information

Located at: [Colorado4h.org](https://colorado4h.org)