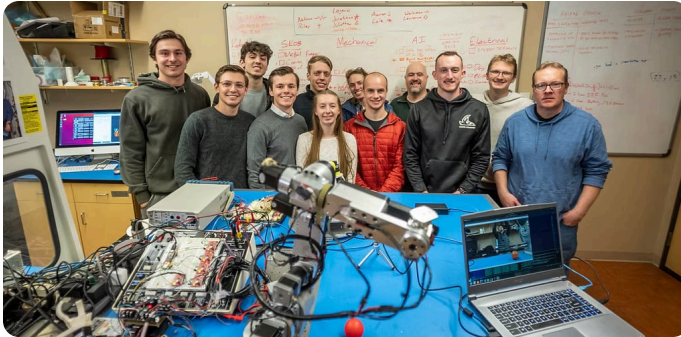


AR4 for your classroom

The AR4 is a professional 6-axis robot arm that brings industrial automation to classrooms, labs, and workshops. Students build it, wire it, and program it with open-source software (Python and ROS). It has a 4 lb payload and 0.5 mm repeatability.



What students learn

- CAD and 3D printing: design and print custom grippers and tools
- Electronics: wiring, soldering, harnesses, and multimeter checks
- Programming: Python, ROS, G-code, C++ Arduino, Modbus/TCP for PLCs
- Kinematics, motion planning, and troubleshooting
- Vision systems with OpenCV
- Documentation, teamwork, and safety for human-robot work
- Skills that carry over to industrial robots (Fanuc, UR, ABB)

What the AR4 kit includes

- 26 machined aluminum pieces
- All bearings, belts, pulleys, shafts, pins, machine screws and set screws
- All the primary electrical components needed to build the robot

Stepper motors and drivers, and the gripper or tool holder, are separate options. See the AR4 kit page for the full list.

Free course and class tools

- An online AR4 build course made from the official build manual, with lessons students mark done and a certificate when they finish
- Professor dashboard: create a class with a join code and assign a course
- See each student's progress, who is stuck or inactive, set due dates, and download the class list
- Build your own course, or copy the build manual course

Sample curriculum

See what a real AR4 course covers and use it in your own class: anninrobotics.com/downloads/AR4_Robot_Curriculum_Enhanced.pdf

Free software and resources

- No proprietary software or licenses required
- Build manual, tutorials, knowledge base and community

Ordering for a school

Request a pro forma quote, or pay by invoice for your lab order, at anninrobotics.com/invoice. Questions? Email info@anninrobotics.com.