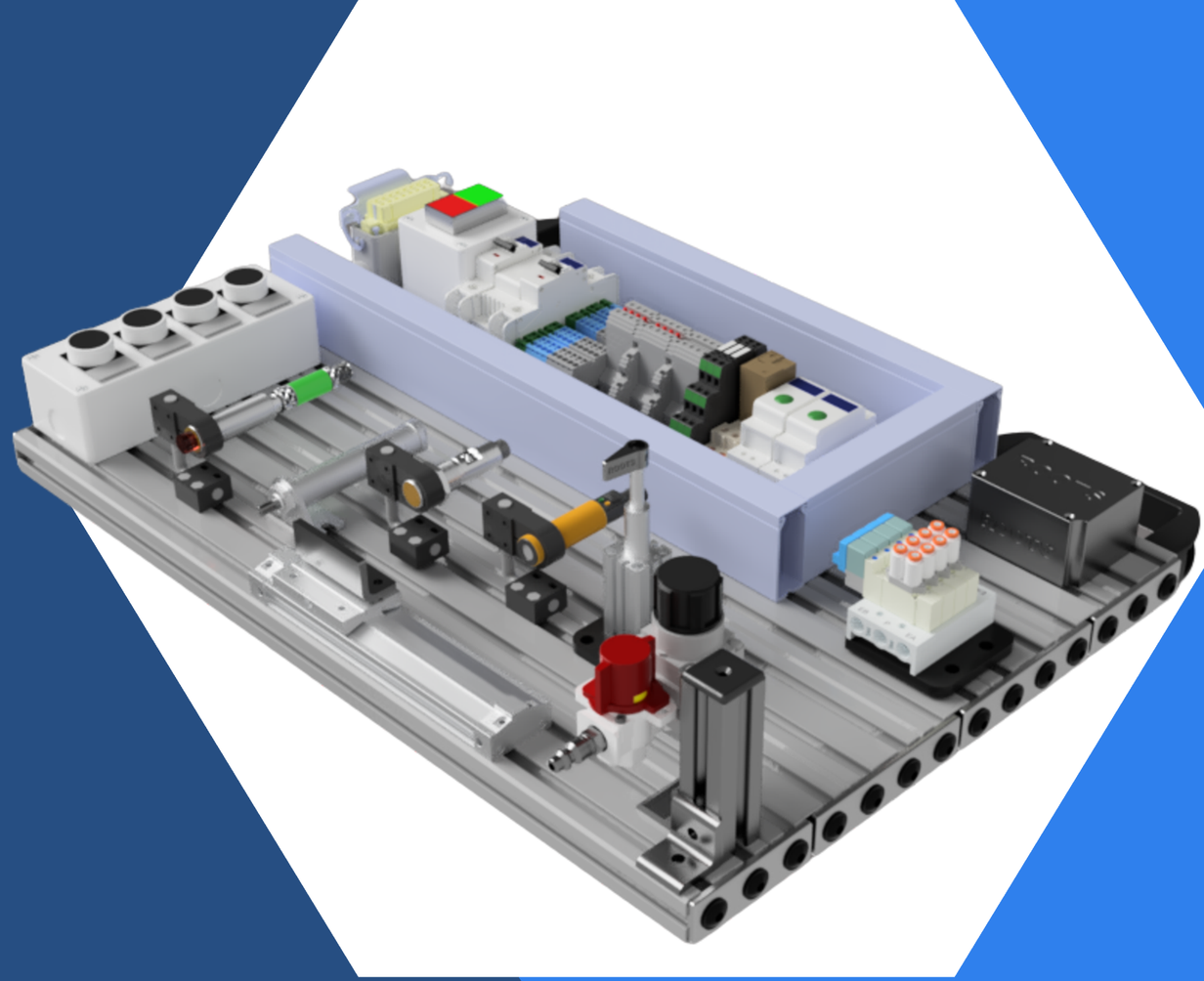
WE INNOVATE TO EDUCATE

Flexible Training Modules

Empowering the Next Generation of Automation Talent



ROOTS Education's Flexible Training Modules (FTMs) simulate real-world industrial automation systems through hands-on integration of electrical power, sensors, relays, pneumatics, vacuums, and safety equipment. The FTMs prepare students for real-world troubleshooting, integration, and controls tasks across the manufacturing, electronics, and automation industries.

The **Electrical/Pneumatic FTM** introduces students to basic and advanced concepts in wiring, circuit analysis, sensor feedback, relay logic, and pneumatic actuation, along with I/O mapping and validation. It also includes a dedicated input connection for PLC cabinets, enabling it to function as a human-machine interface (HMI) for expanded hands-on labs and robotic system integration.

- **Step-by-Step Procedures**
- **Modular Lab Sessions**
- **Emphasis on Technical Proficiency and Safety**
- **Aligned with Hands-On Industrial Skill Training**