

AI FOR HANDS-ON LEARNING

AI that keeps career and technical education hands-on.

CTELab.ai is an AI venture studio for CTE: we turn real school and shop-floor needs into teacher-governed tools, pilot them in classrooms, and move proven products toward sustainable adoption.

PARTNER ASK

Co-build the first multimodal prototypes, underwrite field pilots, and help define responsible AI patterns for public CTE programs.

AI labs

Product teams

Funders

Pilot schools

01

PROBLEM DISCOVERY

02

PROTOTYPE

03

SCHOOL PILOT

04

EVIDENCE

05

SCALE DECISION

WHY PARTNERS LEAN IN

A practical wedge into CTE products with real pilot evidence.

- **Field access:** teacher fellows, pilot schools, student artifacts, and employer feedback loops.
- **Multimodal wedge:** photos, video, voice, project logs, rubrics, safety expectations, and career artifacts.
- **Evidence path:** each cycle ships a prototype, pilot report, implementation playbook, and adoption decision.

AI should not pull students away from the work. It should help them plan it, improve it, explain it, document it, and carry it into their futures.

FIRST-YEAR BUILD PLAN

Q1 · Discover

Interview 30-50 teachers, students, administrators, and employers; select 3-5 partner schools.

Q2 · Prototype

Build two priority prototypes; create privacy, consent, and acceptable-use protocols.

Q3 · Pilot

Run 4-8 week classroom and shop pilots; collect artifacts, observations, interviews, and usage data.

Q4 · Decide

Refine, expand, pause, merge, or spin out each product based on evidence and adoption readiness.

INITIAL PORTFOLIO

Five focused product bets

Project Builder

Students document shop work with photos or video; AI helps them reflect, troubleshoot, and connect work to rubrics.

Curriculum Exchange

Teachers generate, adapt, review, and share project-based lessons, safety scenarios, rubrics, and prompts.

Scenario Simulator

Voice, image, and text practice for safety, customer communication, workplace judgment, and technical reasoning.

Portfolio Assistant

Turns project logs into technical documentation, resumes, portfolio copy, and interview-ready skill language.

Shop Coding Support

Helps non-CS CTE students add sensors, dashboards, automation, and AI features to physical builds.

PARTNER FIT

AI partners

Multimodal workflows, safety evals, model reliability, tool integrations.

Schools

Teacher fellows, pilots, implementation context, student work samples.

Employers

Scenario realism, skill language, pathway expectations, feedback on portfolios.

Capital

Seed the portfolio, fund pilots, and support products with credible adoption paths.

Teacher-governed

Student-first

Safety oversight

Privacy by design