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Problem

Shop-floor PLCs, sensors, and machines typically run in **isolation**, with **no unified data path** to a **central** controller or the **cloud** — **limiting** visibility, responsiveness, and secure remote control across the line. Industry 4.0 also remains abstract for **students and trainees**, who **lack a hands-on** model to see how these systems actually work.

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Objective

Build a **small-scale** Industry 4.0 model that connects **local PLC** stations through a **central controller** and **edge gateway** to the **cloud** for **centralized** monitoring and **remote** control, while doubling as a **hands-on learning** platform for **students** to understand how **Industry 4.0** systems work.

