

Case study
Vo-tech school

amatis[™]

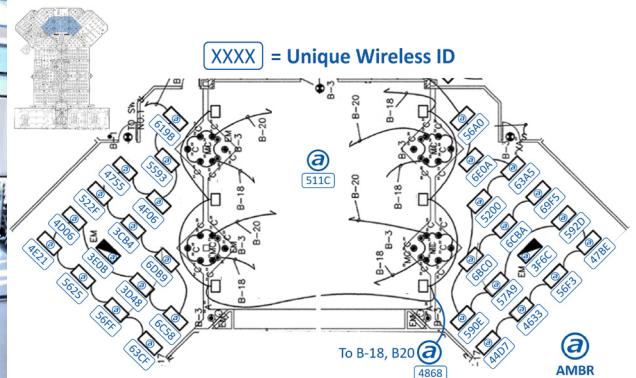
Detroit Electrical Industry Training Center

Warren, MI

Lighting controls demonstration site for local energy community
Pilot training platform for journeymen and apprentices
Reduced energy usage and operating costs



Case Study



OVERVIEW

The instructor staff at the Detroit Electrical Industry Training Center (EITC) wanted to enhance the lighting controls curriculum. After meeting with the Amatis team, they liked the emphasis on empowering electrical contractors to use our system, along with the use of a wireless communication protocol.

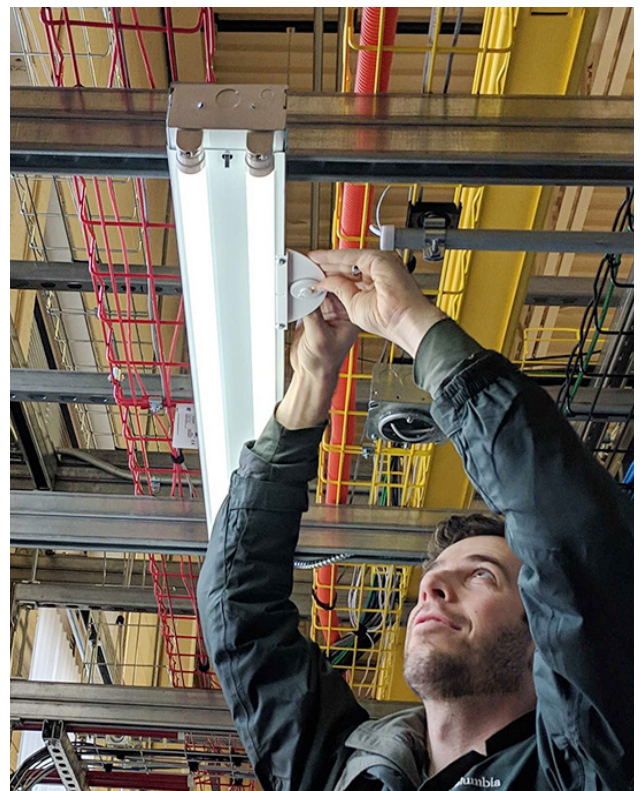
In the cafeteria, classroom and tech lab spaces, students and contractors can learn a new lighting controls technology, wireless mesh networks. Wireless mesh networks eliminate complexity, outsourcing, troubleshooting and range limitation, compared to wired or wireless hub-and-spoke networks.

Students can get hands on experience with commissioning the network in a safe environment using our app via a smart phone or web browser.

CONTROLS NARRATIVE

The controls are in the cafeteria, in one classroom, in one hallway and the tech lab, with plans to expand.

- Most locations have per-fixture control which meant that no new electric circuits needed to be run, and that all zones could be created and customized digitally.
- One section of lighting (the central high bay section of the cafeteria) made sense to control as a group rather than per fixture basis. Once we confirmed those lights were all on the same circuit, and most even had 0-10V line run, we simply placed our Advanced Load Controller at the start of the circuit to control the entire branch. Lastly, we added a mesh-connected Sensor1 to a crossbeam, ~18' above the cafeteria floor, which informs the Advanced Load Controller about occupancy and light levels for daylight harvesting.



PROJECT AT A GLANCE

- On-site training platform for wireless lighting controls
- Programming accessible to students and contractors
- Lighting controls in select classrooms, cafeteria and tech lab