

CASE STUDY:

CREATING A MODERNIZED ADVANCED MANUFACTURING FACILITY TO EDUCATE TOMORROW'S WORKFORCE

How Richard J. Daley College's new Manufacturing Technology and Engineering Center will prepare students for Industry 4.0 careers.

THE NEED:

Richard J. Daley College built a state-of-the art, 50,000-squarefoot facility to house their new Manufacturing Technology and Engineering Center (MTEC). Administrators and educators had to decide what educational technologies to use when equipping the new center.

THE SOLUTION:

Aidex partnered with Richard J. Daley College to provide technologies from FANUC, APT, and Roland DG to skill-up students and provide a careerready education.



We wanted to provide a setup that's going to reflect what students are going to see in industry as well as equipment to teach the basics around that. That's where Aidex, FANUC, and APT came in. We want this to be a strategic advantage for Chicago and for the region, and to be a hub for manufacturing--we're striving to meet this opportunity.

> David Girzadas - Dean of Engineering and Advanced Manufacturing, Richard J. Daley College





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THE OPPORTUNITY:

To advance and modernize the Advanced Manufacturing program with stateof-the-art equipment, Richard J. Daley College turned to Aidex. Administrators worked closely with industry partners to ensure that equipment in the new MTEC would align with real-world situations to provide students with career-ready skills. After identifying the most sought-after skills from regional companies, David Girzadas, Dean of Engineering and Advanced Manufacturing, then worked to supply the MTEC with equipment that would teach the basics and work up to these modern, industry-level skills.

THE SOLUTION:

Aidex partnered with FANUC America, APT Manufacturing Solutions, and Roland DGA to provide Richard J. Daley College with a complete Advanced Manufacturing solution to skill-up students and prepare them for industry. Four FANUC Fenceless CERT Education Carts will teach the basics of and introduce students to robotics and automation. From there, three FANUC/APT MTEC SIM Cells and a FANUC/APT Robodrill MTEC Integration Cell will give students advanced knowledge, bringing CNC and Robotics together. Finally, students will gain hands-on, real-world experience in two FANUC/APT AM CERT Cells that encompass advanced manufacturing and automation in palletizing, convevoring, tool changing, metal detection, and more, One of these cells has even been customized to reflect the unique needs of regional industry partners in the Chicago area. We partnered with APT Manufacturing Solutions to integrate FANUC technologies into educational cells that will give students a true feel of on-the-job tasks in modern, Industry 4.0 manufacturing positions. In addition, Aidex partnered with Roland DGA to equip the MTEC's Makerspace with two monofab SRM-20 Desktop Milling Machines and a GS-24 Desktop Cutter.



THE TECHNOLOGY:



FANUC Fenceless CERT Education Carts



FANUC/APT Robodrill/ MTEC Integration Cell



FANUC/APT Custom AM CERT Cell



FANUC/APT MTEC SIM Cells



FANUC/APT AM CERT Cell



Roland DGA Desktop Milling Machines & Desktop Cutter

THE DIFFERENCE:



Justin Chittick Technical Product Consultant

Justin and the Aidex team have been very personable and helpful through this entire process since the beginning. The project has been a long process, and Justin has been a constant every step of the way.

> Gabriel Barrington - CNC Instructor, Richard J. Daley College

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