

MAKING THE Connection TO Career Technical Education



MACOMB COUNTY

Providing STEAM to the careers of the next generation

Companies rely on continuous process improvement to keep them on the cutting edge and so, too, community colleges. When last year's new event, Automotive Design and Engineering Expo, was as well received as its tenth annual Robotics, Engineering and Technology (RETS) Days, Macomb decided to combine the two, giving students in grades 6-12 a one-stop-shop for future technical careers.

Building upon past STEM initiatives, Macomb's new Auto STEAM Days bring together science, technology, engi-

neering, mathematics (STEM), art and manufacturing, with applications in a wide variety of career fields. The addition of "manufacturing" needs little explanation in a region that is home to Ford, General Motors and Fiat Chrysler, all participants in Auto STEAM Days, the addition of "art," however, points to an often unsung hero in applied technology.

"A creative side can really be found in any of the areas," says Joe Petrosky, dean of Engineering and Advanced Technology at Macomb. "But it is best demonstrated in a program

like Digital Sculpture."

Macomb's Product Development Digital Sculpture Program, where art and technology definitely meet, is the first of its kind to be offered by a community college in Michigan. Combining the technical accuracies of Computer Aided Design (CAD) with the hands-on craftsmanship of clay modeling, digital sculpting provides designers, engineers and even film directors with a preferred three-dimensional prototype that they can walk around, touch and fine tune. And, it's just one of the high demand ca-

reers that students will be able to explore during Auto STEAM Days.

In addition to CAD and Digital Sculpture, other careers and training that will be represented at the event include mechatronics, robotics, Computer Aided Manufacturing (CAM), electric and hybrid vehicle development, tool and die design, welding and Computer Numerical Control (CNC) - a process used to manufacture everything from guitars to medical equipment to automobiles.

It was a CNC machinist apprenticeship that first brought Dean Parent

to Macomb about 20 years ago. But it was a desire to advance at Chrysler, where he has worked for 17 years, which has kept him coming back. After completing his apprenticeship, he returned to earn an associate degree in tool and die design, later transferring those credits to Ferris State University. After taking all his classes at Macomb's South Campus, Parent graduated from Ferris in December with a Bachelor of Science Degree in Industrial Technology and Management.

"The convenience of taking classes at Macomb

gave me the ability to go back to school and get the bachelor's degree that is demanded to advance at Chrysler," says Parent. "And if I ever have to pursue another career, I have this in my back pocket."

At the Auto STEAM evening event on Oct. 20, students and their parents will hear more stories like Parent's, illustrating how individuals can build upon apprenticeships, certificates and degrees as they advance through their careers, expanding their expertise and marketability as technology and workforce demands change.

Parents, students, guardians, family and others: Register to attend this FREE event!

Explore Careers in Manufacturing & Technology

Presented by Macomb Community College in affiliation with AUTO STEAM DAYS Oct. 19-20

Thursday, Oct. 20, 2016 • 5:30-8pm

Macomb Community College • Sports & Expo Center

14500 E. 12 Mile Road, Warren, MI 48088

Hear from our panel of experts:

- Learn about job skills that are in high demand
- Hear from recent grads who found good-paying career employment
- Meet local businesses and learn who employers are hiring
- Discover the career pathway that's right for you
- Learn about apprenticeship programs including the Michigan Apprenticeship Program Plus (MAP+)
- Explore internships and work-based learning

Enter for a chance to win a 3D printer!

concessions



Register Today!

www.macomb.edu/MFGevening

Center for Advanced
Automotive Technology
C • A • A • T

 **Macomb
Community College**
Education • Enrichment • Economic Development
Discover. Connect. Advance.

MISD



Presented by Macomb Community College, in collaboration with
Science, Technology, Engineering, Arts, Manufacturing and Mathematics (STEAM) partners.

Anchor Bay Schools
Armada Area Schools
Center Line Public Schools
Chippewa Valley Schools
Clintondale Community Schools
East Detroit Public Schools
Fitzgerald Public Schools
Fraser Public Schools
Lake Shore Public Schools
Lakeview Public Schools
L'Anse Creuse Public Schools

For more information about CTE, contact
Scott Palmer at 586.228.3488 or spalmer@misd.net


Macomb Intermediate School District
44001 Garfield Road
Clinton Township, MI 48038
586.228.3300

For more information about
the MISD and the 21 school districts, go to
www.misd.net

Mount Clemens Community Schools
New Haven Community Schools
Richmond Community Schools
Romeo Community Schools
Roseville Community Schools
South Lake Schools
Utica Community Schools
Van Dyke Public Schools
Warren Consolidated Schools
Warren Woods Public Schools