

Mechatronics

Primary Units of Instruction

- Design Process
- Computer and Control Systems
- CAD
- Solidworks
- Controls and Sensors
- Mechatronic Concepts
- PLC's
- Hydraulics/Pneumatics
- Robotics/FANUC

"Without HACC, I guarantee that I would not have become the successful engineer that I am today.

~ Nicholas James Balbo
Propulsion Engineer, Naval Air Systems Command
Former CTE Student at HACC



#3 on the Rank List for High Demand/High Wage Jobs

Mechatronics is a multidisciplinary field that combines several types of engineering—electrical, computer, and mechanical—and refers to the skill sets needed in the contemporary, advanced automated manufacturing industry. At the intersection of mechanics, electronics, and computing. Mechatronics specialists create simpler, smarter systems. Mechatronics is an essential foundation for the expected growth in automation and manufacturing.

Certifications Available @ HACC

FANUC 1
FANUC 2
FANUC Robotics
PLC
OSHA 10

Articulated Credits

Complete the 2 year program and earn articulated college credit that you can use to further your certification or earn a degree.

- Jackson College
- Baker College
- Washtenaw Community College
- Mid-Michigan College

Mechatronics/Engineering Salaries

- Median Entry-Level Salary: \$97,250
- Mean Annual Salary: \$88,800
- Top 10 Percent Salary: \$103,380

Hillsdale

Area

Career

Center

Is This Program for Me?

It is if you.....

- Like mechanics, robotics, or production equipment?
- Have a knack for creative problem solving?
- Enjoy technical and engineering activities?
- Can you work well as a member of a team?

“Scientists study the world as it is; engineers create the world that has never been.”

~Theodore vonKarman,
Hungarian-American
mathematician,
aerospace engineer
and physicist

**44% of all
Southeast
Michigan
job ads
require
STEM skills.**

\$43.75

Median Hourly
Wage

\$97,250

Median
Annual
Salary

5%-9%

Projected
Annual Job
Growth

Want immediate employment after High School, No problem:

The skills you learn in the Mechatronics program at HACC are highly sought after in Hillsdale County. The Advanced Manufacturing skills and knowledge you gain in the Mechatronics program will give you an advantage in the job market. Business and Industry are currently seeking individuals with Advanced Manufacturing training. You will have an opportunity to build relationships with these employers while in the program.

What careers are there in mechatronics?

- A degree in mechatronics can lead to management positions, including project management. Workplaces range from laboratories and processing plants to engineering design offices.
- Mechatronics specialists work in the fields of cybersecurity, telecommunications, computer science, automotive engineering, robotics, artificial intelligence, and consumer products and packaging.

Mechatronic specialists may use the following job titles:

- Automotive Engineer
- Control System Engineer
- Data Logging Engineer
- Instrumentation Engineer
- Project Engineer
- Software Engineer