



Mechatronics

FACULTY SPOTLIGHT



**Kiflom
Gebremichael**

607-962-9243

kgebremi@corning-cc.edu



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information

Kiflom Gebremichael worked as an electrical design engineer in the building industry for companies in London and Addis Ababa, Ethiopia prior to earning a master's degree and joining the faculty at SUNY Corning Community College.

He is a key lead in the design of the Mechatronics A.A.S. program.

University of St. Thomas
Electrical Engineering, M.S.
Queen Mary, University of London
Electrical and Electronic Engineering, BEng



MECHATRONICS

ASSOCIATE IN APPLIED SCIENCE (A.A.S.)



Mechatronics — Everywhere!

One such example of mechatronics is the garage door opener. The system consists of gears/pulleys driven by an electric motor. Early systems were hard-wired to a button — a simple mechanical and electrical system. Remote wireless controls were added so the door can be opened from the driveway.

Modern systems have sensors that prevent the door from closing on an object. A cell phone can control the door from anywhere. Modern garage door openers are mechatronics systems that include electrical, mechanical, and computer technologies.

BUILD YOUR OWN FUTURE

Mechatronics involves mechanical, electronic, computer, robotic, and control systems. You will gain the technical knowledge and skills needed to install, repair and maintain electromechanical, fluid power, process control or robotic systems. You will do hands-on learning in an equipment lab where you will work on models of a multi-stage assembly line.

Industrial control systems have been defined as mechanical or electrical. Almost every mechanical system has electric- or computer-based controls. Technicians need the knowledge of each type of system. They must know how the interconnections between mechanical, electrical, and computer systems work. Mechatronics is present in any automated system, from HVAC systems to robotic assembly lines.

A Mechatronics A.A.S. degree prepares graduates for technician work in advanced manufacturing. Often, Mechatronics Technicians assist in the design, development, repair, and maintenance of electronic/robotic systems and individual component.

Predicted regional growth for:

- Industrial Engineering Technicians **7.5%**
- Industrial Machinery Mechanics **9.6%**
- Maintenance Workers, Machinery **10.9%**
- Maintenance and Repair Workers, General **11.6%**
- Installation, Maintenance, and Repair Workers, All Others **13.5%**

\$40K-\$85K

The average Mechatronics Technician salary in the US is **\$61,425**



Photo: Amarel, Inc., Jeffersonville, IN