

**MILWAUKEE SCHOOL
OF ENGINEERING**
Milwaukee, WI

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Fluid Power Education Powers Industry

From the foundations of fluid power to the latest technological advancements, companies turn to Milwaukee School of Engineering to help their employees stay current or advance their skills.

The Applied Technology Center™ (ATC) offers public, private and customized seminars to meet your needs. All are designed to keep engineers and managers abreast of cutting-edge technological development, current applications, and new techniques in the fluid power industry.

GS Global Resources is a manufacturer and integrator of hydraulics and electronics components and systems that works with equipment manufacturers on the design and efficiency of their equipment.

“We help manufacturers use the latest technology from a hydraulic and electronic perspective,” said John Thornton, president and owner of GS Global Resources. “These two technologies are often very merged and we want our customers to make sure their equipment can gain a competitive edge in the marketplace.”

With nearly 50 engineers on staff, GS Global Resources turns to MSOE for its professional education needs.

“Fluid power is not a common offering in many engineering schools. The Fluid Power Institute at MSOE is a fantastic resource for us to tap into. They do a great job providing educational material and training to bring engineers up to speed on hydraulic technology,” said Thornton. “It’s important for us that we use the services and products offered by MSOE so we can train them very well.”

“MSOE’s seminars are based on applied research conducted by scholars, and use industrial-grade training equipment,” said Dr. Medhat Khalil, MSOE director of professional education and research development. “In addition to a standard sequence of courses, we offer customized seminars to meet each company’s needs. We can change our lecture curriculum and add proprietary laboratory exercises.”

The Universal Fluid Power Trainers (UFPT) are unique to MSOE. Designed by Khalil, a UFPT is a modular, smart fluid power and motion control training unit. It features integrated industrial-grade hardware and built-in software licenses to teach and demonstrate fluid power technology. Students go through exercises to learn circuit design and component selection; functional animation; mathematical modeling; performance simulation; prototyping with hardware-in-the-loop; performance analysis; and data acquisition.

“We use a UFPT in nearly all of our courses,” said Khalil. “It is also completely transportable. We have shipped it to companies around the world and conducted on-site training for their engineers.”

FLUID POWER COURSE OFFERINGS

Introduction to Hydraulics for Industry Professionals

Hydraulic Fluids and Contamination Control

Hydraulics Systems Modeling and Simulation for Application Engineers

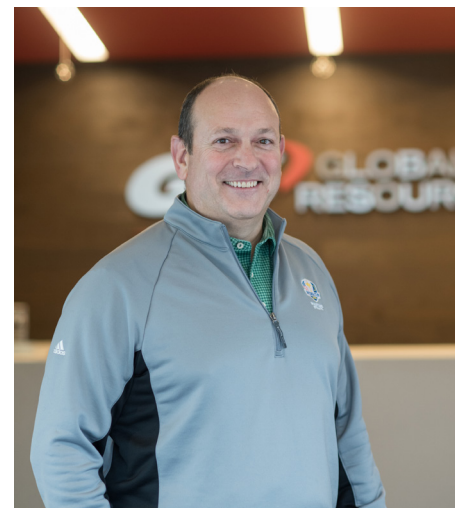
Electrical Motors

Electrohydraulic Components and Systems

Hydraulic Specialist Certification Review

Electrical Principles and Practices I

AC/DC Principles



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—John Thornton,
GS Global Resources