



# Cleveland Community College

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January 24, 2011

Cleveland Community College is pleased to report the status of the **Fluid Power and Cloud System Interface** funded, in part, through the National Fluid Power Association Gift Program. Automation Studio™ software (Famic Technologies) was purchased and installed on a local server in August of 2010. At this time the College has ten active seat licenses to serve the hydraulics lab. This software was used last semester in two hydraulics classes by approximately 40 students. Students use the software in primarily two areas: class demonstration and animation of hydraulic principles and to prepare their capstone project near the end of the program. Students were divided in 10 teams and given the responsibility of designing a hydraulic machine and defending the design before peers and a panel of instructors. A completed design must have all design criteria and be part of a fully animated demonstration of their design. Before the NFPA award, the College had limited resources and was unable to fully implement the capstone project. Acquiring the automation software has exposed students to hydraulic principals and design and greatly advanced fluid power education at the College.

The second phase of implementation involving remote access using the Cloud System Interface is ongoing. Several attempts have been made to load the software onto the Cloud for remote lab usage. By virtue of the manner that the software passes out seat licenses, it must be installed on its own server and discrete network which continues to be evaluated by the College's IT staff and Famic Technologies. A new version of the licensing protocol has been developed and is in testing. Final implementation is expected by the end of April 2011. Once the licensing protocol is in place the College plans to install the image on the Cloud and make the software available to students asynchronously. At this time the College plans to integrate the software with the county high schools allowing students to gain valuable exposure to hydraulics and full system implementation.

We feel honored to have been selected to be part of the NFPA gift program. Your gift has allowed us to expand the learning experience of our students and provide them with real world challenges. Please accept our thanks and as always I remain your humble servant,

Marks S. Gengler  
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