Monday, Oct 17, 2016

Oakland ISE graduate student wins statewide simulation competition

Tevyn Gentile, a master's student in Industrial & Systems Engineering at Oakland University, has been named the winner of this year's Michigan Simulation User Groups (MSUG) Student Competition.

The Haslett native, and current Royal Oak resident, presented his competition-winning project at the 2016 MSUG conference on October 12 and was chosen over several other students from around the state. Gentile earns a $600 prize for being selected as the top entry.

The Michigan Simulation User Group's Student Competition sought out exemplary uses of simulation by current students who attend school in the state of Michigan. The MSUG Student Simulation Competition is an open competition for any students to submit their best simulation project.

All submissions had to include a short video of the simulation model running, a written report or PowerPoint presentation with an executive summary and an explanation of the problem or challenge addressed in the simulation model, solution, and recommendations.

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"Tevyn used the principles and tools he learned in our ISE 569 course to complete a detailed analysis of the system's performance and provide recommendations for improvement," said Robert Van Til, Ph.D., Chair & Pawley professor of Lean Studies in Industrial & Systems Engineering. "It was great to see his work recognized by the MSUG selection committee."

Gentile's project was based upon a process improvement analysis for Great Lakes Wine and Spirits, Michigan's largest alcoholic beverage wholesaler. He addressed warehouse needs upon their recent expansion, studied the current distribution process, talked with managers and employees for feedback and incorporated it into a simulation model using the tools he learned in class to find a solution that improved efficiency. Specifically, he determined the best location to place a newly acquired automatic stretch wrapper for efficient warehouse use.

Gentile's work laid out the best probable solutions and he put together a PowerPoint presentation outlining his recommendations based on data analysis and simulation work.

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