

Student Takes on Difficult Project from FloDesign

ME Major William Dionne '06

—Yarmouth, ME

William Dionne took on a challenging task from FloDesign, Inc., for his Senior Design Project. FloDesign is a contract engineering and product development company specializing in Fluid Dynamic Products, Machine Design, and Data Management Systems. FloDesign has provided product development for such companies as General Dynamics, Textron Lycoming, and United Technologies Corporation, as well as research for NASA Langley and NASA Lewis.

William was tapped to design a fluidic oscillator that is capable of alternating flow between various ports without the assistance of moving parts.

"Currently we are attempting to get a leaf blower to alternate," explained William. "But there are various applications for this project—both militarily and commercially."

The research proved so promising that FloDesign is looking to begin a new venture based on it, according to Stanley Kowalski III, ME '92 and Professor Emeritus Walter Presz, the industry advisors William worked with for this Senior Design Project.

William also completed a Senior Design Project last semester. He worked with a team of students



ME major William Dionne '06 with Senior Design Project Advisor Dr. Bart Lipkens, associate professor of mechanical engineering.



to design a fishing pole for quadriplegics for the American Society of Mechanical Engineers (ASME) competition.

"I think Western New England College does a great job with hands-on work," said William. "The senior project is the student's turn to step up and show what they can do. Companies like to see you doing the work, taking the steps to lead, and accomplishing something."

CDI-Aerospace in Windsor Locks, CT, which serves the commercial/military aerospace and satellite industries, hired William immediately after graduation.