Robotic automation in architecture

The Interdisciplinary Design Center (IDC), at the Digital Design Fabrication Program (DDF), College of Architecture, is looking for interested students to collaborate in a new Robotics Lab. Student teams need to prepare operations of the new Fanuc Robotic Arm. Students are also expected to collaborate in several new applied research areas in the Architecture field. Students will work independently, guided by a faculty and receive course credits. For further info please contact the faculty in your department or Prof. Pongratz, christian.pongratz@ttu.edu

Faculty contacts:
Prof. Christian R Pongratz (COA)
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This is a unique opportunity to study within the framework of an independent course, but get at the same time exposure to professional work environments, work interdisciplinary and with industries supporting this new design research endeavor at Tech.

Students will work in team with others from various departments and prepare the new Fanuc robotic arm for various operations. Students are also expected to collaborate in teams initiating several new applied research areas in the Architecture field. Among those are large scale free form 4D printing, hot wire cutting, 3D scanning, 3D weaving and 3D forming with various materials.

Students skills may have a wide range such as from software programming, mechatronics to endeffector engineering and require a genuine interest to work hands on and in teams. Students need to have an aptitude to work independently but according to a team schedule, and will be guided by a faculty mentor of their department, from which they will also get semester course credit.

The request is for immediate availability in the spring semester 2014 and will be offered on a repeated basis according to projects schedules.