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Undergraduate Research Program

Project Name	Modular Reconfigurable Robotics using Additive Manufacturing
Campus & Location in Mexico	Guadalajara
Faculty	Mechanical
Research Area	Robotical
Research Responsible	Armando Roman Flores
Description of the Project	Reconfigurable robots are constructed of robotic modules that can be connected in many ways to form a large variety of structures. Each part has a relationship with the other and allows the robot to adapt its shape to tackle various tasks. Building reconfigurable robots requires to form morphologies based on design considerations, including geometric modelling, compliant joints and mechanisms and actuators. This project intends to explore developing parts using flexible mechanisms and parts that can be printed using 3d printing techniques.
Training Provided	Training provided by professor in theoretical aspects, and by postgraduate students in lab equipment.

Offered during:

SUMMER	X	**WINTER**		**SEMESTER**	

Student

Tasks/Responsibilities	1. Geometrical design of the samples for mechanical testing 2. 3D printing of samples for mechanical testing 3. Mechanical testing of samples
Required Language Proficiency	English level minimum B2.
Required Skills and Abilities	1. Responsible 2. Basic knowledge in mechanics of materials 3. Basic knowledge on 3D printing technologies 4. Basic knowledge on Matlab 5. Basic knowledge on Finite Element
Other Documents	2) Accumulative grade point average (GPA) 2.5 3) Official Transcript 4) 2 letters of recommendation of faculty members 5) Resume 6) Letter of intention explaining the reason why you would like to participate in the research program