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Undergraduate Research Program

Project Name	Analysis and synthesis of automation controllers
Campus & Location in Mexico	Guadalajara
Faculty	Engineering and Sciences
Research Area	Automation & Mechatronics
Research Responsible	Carlos Renato Vázquez
Description of the Project	In this project, we are developing a mathematical theory that allows an efficient, correct and automatic design of code (PLC) programs for automation systems. We are developing an automation platform for the validation of the proposed algorithms.
Training Provided	Discrete dynamical systems, algorithms, electro-pneumatic systems, PLC programming, industrial networks.

Offered during:

SUMMER

☒

WINTER

☐

SEMESTER

☒

Student

Tasks/Responsibilities	Validate code programming algorithms in an automated manufacturing cell. Develop & modify existing algorithms to include new scenarios.
Required Language Proficiency	Spoken and written English
Required Skills and Abilities	Basic knowledge on automation: sensors, actuators and PLC devices.
Other Documents	<ol style="list-style-type: none"> 1) Being at least in your 2nd year of bachelor 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