

CONTACT

 [Erika Marlene García Sánchez](#)

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SKILLS

- Python
- R
- SQL
- HTML
- CSS
- C++
- C#
- Clojure
- Kotlin
- MATLAB

LANGUAGE

- Spanish (native)
- English (advanced B2)
- French (beginner A1)
- German (beginner)

VOLUNTEERING

Facilitator in Beautiful Patterns

I was a facilitator at the bootcamp of Beautiful Patterns where I could share my knowledge of programming with girls studying elementary and high school.

CERTIFICATION

Programming Fundamentals

Issued by Duke University

- January 2022

SCHOOL PROJECTS

- Mobile application for Atizapan's government
- Video game for PAS (Percussive Arts Society)
- Simulation of the traffic of a city (using agents and Unity).

Erika Marlene García Sánchez

COMPUTER SCIENCE ENGINEER

EDUCATION

Tecnológico de Monterrey, Estado de México, México
Feb 2020 - Present

B.S. in Computer Science

(Expected Graduation May 2024) (Currently 6th Semester)

Academic Excellence Scholarship awarded to top students.

EXPERIENCE

March 2022 - Present

Rover for University Rover Challenge

I'm a member of Quantum Robotics which is a Robotics Club from my university who won 15th place at the last URC (2022). I'm working on the Control Area developing codes using Python with the framework Robot Operating System in order to make the rover autonomous and able to read some ArUco Markers so that it can reach them and pass through a gate.

August 2022 - November 2022

CIRE (Iberoamerica Contest of Spatial Robotics)

I worked on this contest with three friends of mine. We developed algorithms of control to move the Robot Toyota HSR (Human Support Robot). We have achieved missions such as obstacle avoidance and detection of random placed objects. We obtained second place and gained lots of knowledge.

March 2022

Hackathon discorrution

Working as a team with four friends in 48 hours, we developed a website in which the Mexicans could make an allegation without compromising their security. I contributed to the front end and developed interest in this area. We achieved the goal and won first place.

Jan 2019 - June 2020

WER (World Educational Robot) México

Member of my high school's robotics team which competed in WER, a national robotics tournament. My team built a robot to participate in the 2019 competition. I was in charge of programming the robot to complete autonomous tasks such as picking up a cup and placing it in a different station. Later in 2020 I coached students to program their own robots.

ACTIVITIES

- Robotics Club - March 2022 - Present
- Student association
 - I was the project manager of the association of my major.