

Eduardo García Rougon

Digital Systems and Robotics Engineer

Interests: artificial intelligence, robotics, hardware & software programming.

Hard skills: efficient resolution of problems through programming, experience at working with microcontrollers and FPGAs.

Objectives, Competencies and Interests

I look forward to the development of new technologies that could contribute to the resolution of problems and the creation of new opportunities and acquisition of new knowledge in both the scientific and technological fields.

Soft skills: Foster productive teamwork; strive for superior results; manage complex business activities; execute vision to lead the business; coach, develop and manage others.

Academic Studies

- ITESM Campus Querétaro 2016 - 2021 [Digital Systems and Robotics Engineering](#)
- Automation and manipulation of drones through the use of IMUs controlled with Python programming.
- Construction of fighting robot with programmed movements and controlled by Bluetooth.
- Construction of space exploration robot controlled remotely using ROS.

Softwares

- Code Blocks (C)
- CodeVision, LabWindows CVI (C hardware)
- Cloud 9 (C++)
- Eclipse, SpringBoot (Java)
- Xilinx Navigator (VHDL)
- Vivado (Verilog)
- Spyder (Python)
- React Native (Java Script)
- Android Studio (Kotlin)

Languages

- Spanish (native language)
- English (FCE B, BULATS 647, TOEFL 557)
- French (Level A1)
- Japanese (Level A1)

Contact Info.

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🌐 Querétaro, Querétaro

Laboral Experience

- Pro Karma March – August 2020 [ITP Trainee](#)
- **Activity:** Intensive Training Program that consisted in learning Java and JavaScript oriented towards web applications and database creation.
- **Results:** Built different web applications using servlets and storage of persistent information in databases.
- Pro Karma September – November 2020 [React Native Bootcamp](#)
- **Activity:** Two months course that consisted in learning the basics of building Android applications with React Native and Android Native.
- **Results:** Designed an Android application that collects worldwide COVID-19 data and has extra functions of login and calendar.
- Pro Karma December 2020 – January 2021 [Android Bootcamp](#)
- **Activity:** Two months course in learning more in-depth concepts of Android apps development like online database access and API request.
- **Results:** Built an app as an approach to an online shop that sells traditional Mexican products and stores requests in Cloud Firestore database.

Projects and participations

Science and Technology

2016 - PRESENT

- **Outstanding Projects:** Videogames one controlled with ultrasonic sensors connected to FPGA and another controlled with capacitive sensors, car cluster made with LabWindows/CVI and car lights with CAN protocol, information cipher inspired in AES Rijndael's algorithm on microcontroller and FPGA, edge detection for images with parallel programming (Java Threads, Fork-Join, OpenMP, TBB, CUDA), surveillance camera with OpenCV that records and takes pictures with face and movement detection.
- Participations in many science and technology exhibitions from ITESM (presentation of safe, ecological home, digital clock, serial communicator, animations and videogames, car cluster).