Adrián Lozano-González

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 AlogoZano

 Adrián Lozano González

PROFILE

I am currently a senior student in B.Sc. in Robotics and Digital Systems Engineering. Throughout my academic and personal life I have developed a profound interest in robotics, electronics and programming. My focus on learning has led me to develop deep teamwork, resilience and leadership abilities. My current main goal is to acquire more knowledge about embedded systems and intelligent autonomous robotics.

EDUCATION

- **B.S. in Robotics and Digital Systems Engineering** — Mexico City
  Instituto Tecnológico y de Estudios Superiores de Monterrey — *2021 – Present*
  Strong emphasis on software design, digital electronics, control systems, system-on-chip design, and embedded design for intelligent robotics development. During my enrollment, I contributed to several projects based on embedded software development, electronic design in order to generate advanced computer engineering and robotics applications.

EXPERIENCE

- **John Deere - Advanced embedded systems design** — Mexico City
  Embedded front-end loader control platform — *Sep 2023 - January 2024*

  Implemented a tractor front-end loader control platform which included a remote dashboard and vibration analysis.

  - Communication protocols such as CAN, USB, TCP/IP, I2C and UART were implemented in a STM32 microcontroller.
  - Worked with embedded C, Matlab and Simulink to process digital signals and create a discrete controller.

- **Intel - System on Chip design** — Mexico City
  Electric Current Monitoring System Development — *Feb 2023 - Jun 2023*

  Designed a system for monitoring the electrical consumption generated by different light bulbs, using an ATmega16 microcontroller as a foundation.

  - Used advanced peripherals such as ADC and UART in order to generate recommendations for household or business lighting based on the relationship between consumption and luminosity.
  - Implemented using C and Atmel AVR assembly.

- **Sopris technologies** — Mexico City
  Internship program — *Jan 2023 – Jul 2023*
  Collaborated with software specialists in the development of web portal monitoring and stress testing for bank websites and overall application performance monitoring.

  - During this program, I implemented threshold alerts on specific portals.
  - Worked with technologies such as New Relic, Zenoss, React.js, HTML and CSS.

TECHNICAL SKILLS

- **Languages**: Spanish (native), English C1 (107pts on TOEFL IBT), Japanese N5

- **Packages and Development Platforms**: Microsoft Office, Git, Google Drive, Google Cloud Platform, Simulink, ROS2

- **Programming Languages**:

Python - Advanced	C - Intermediate	C++ - Intermediate	MATLAB - Advanced
	R - Basic	VHDL - Intermediate	

Soft Skills

Leadership	Adaptability	Teamwork	Self-awareness	Learning on the fly	Results orientation

Additional

- **International Participation in Robotics Tournaments** — Mexico city
  FLL, WRO, Robocup — *Aug 2012 - March 2020*
  Throughout this period, I participated as part of a team in robotics competitions such as FLL, WRO, and TMR (Robocup). In 2015, we achieved second place nationally, earning a spot in the international competition held in Doha, Qatar. In this competition, we successfully qualified among the top 20 teams in the world.

- **Leadership Diploma** — Mexico city
  Soft skills — *Jan 2023 - Feb 2023*
  In this leadership diploma, I improved my leadership skills within the context of a diverse world. We analyzed key leadership competencies and worked on a project aligned with a Sustainable Development Goal.