

# Arturo Vargas Cuevas

Electronics Engineer

Mexico City, Mexico

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## Profiles

Arturo Vargas Cuevas

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## Languages

Spanish Native English Advanced (C1)

German Basic (A2)

## Hard Skills

Embedded Programming Advanced Web Development Intermediate SQL, React, JavaScript, HTML, CSS C, C++, SystemC, Arduino, Assembler, VHDL

Design Tools Intermediate Operating Systems & Command Line Tools Advanced Proteus, PS-CAD, TINA-TI, Solidworks, MATLAB, Simulink Bash, Linux, macOS, Windows, Git

Prototyping Skills Advanced Analog & Digital Communication Systems Intermediate Oscilloscopes, Multimeters, Spectrum Analyzers, Soldering UART, I2C, SPI, AM/FM, QAM, QPSK

## Certifications

Peer Mentoring Diploma Tecnológico de Monterrey 2023 Certificate

Entrepreneurship bootcamp for engineering Tecnológico de Monterrey 2022

Entrepreneurship Diploma TrepCamp 2021

Leadership Diploma Tecnológico de Monterrey 2020

## Awards

2nd place in the Graduation Projects of my Campus School of Engineering and Science of Tecnológico de Monterrey CCM June 2024 LinkedIn

CENEVAL National Award CENEVAL May 2024 Certificate

Scholarship for studies in Germany Baden-Württemberg-STIPENDIUM Oct. 2023 - Jan. 2024

Scholarship for TrepCamp Program Becas Santander Mar. 2021

Technology enthusiast with a curious, passionate, and innovative mindset, always striving to stay at the forefront of the field. Love getting out of my comfort zone for new experiences. Fast learner, good at self-management and self-study. Inspiring leader, stand out for problem solving. Loves to help others.

## Education

M.Sc. in Communications and Information Technology Sept. 2023 - Present (paused) Universität Ulm (Germany)

Completed 2 semesters. Currently on a leave of absence. Part of the Advanced Master's Placement Program between Tecnológico de Monterrey and Ulm University.

B.Sc. in Electronics Engineering Feb. 2020 - Jun. 2024 Tecnológico de Monterrey (Mexico City Campus)

During my career, I gained international experience, won the CENEVAL national award, achieved second place in the best graduation project in engineering, founded a drone racing team, served as a peer mentor, and currently, I am an advisor on time management and international programs in the welfare and counseling department of my campus.

## Experience

UP Electric (Consultant for Grupo Televisa) Aug. 2024 - present Independent Electronics Engineer & Full Stack Developer Hybrid, Mexico City

- Selected by UP Electric to develop PowerTIC product for Grupo Televisa as part of a consulting agreement. Implemented IoT and WebApp solutions tailored to energy management and data analysis.
- Developed robust real-time power monitoring solutions using advanced technologies such as React, PostgreSQL, and embedded systems.

MPower (Consultant for Grupo Elektra) May 2022 - Sep. 2024 Logistics and Technical Support Staff Remote, Mexico Helped develop and deliver the CoachingRED program.

## Projects

Capstone Project (SmartNET) May 2024 - June 2024 In collaboration with UP-Electric GitHub

We designed a hardware and software IoT solution for the requirements of the Engineering Department of the Estadio Azteca.

- Won 2nd place in the engineering graduation projects of my campus. (Jun. 2024)

Chinampac Sep. 2022 - Present Entrepreneurship CONECTA (TEC de Monterrey Newsletter)

Member of an entrepreneurship focused on attacking hunger in Mexico and creating a more sustainable future. Developer of the electrical technologies.

- We won the National Sprite Challenge by Fundación Azteca of Grupo Salinas (Mar. 2023).
- We won the IMEFU National Entrepreneurship Contest (Oct. 2022).

Hyperion CCM Drone Racing Team Mar. 2022 - Mar. 2023 Student University Racing Team at Tecnológico de Monterrey Mexico City Campus Active Student Societies in TEC Mexico City Campus

Founder of the drone racing team representing my campus in drone competitions. Demonstrated leadership and innovative skills by leading a team of 30 students from various disciplines. Acquired the necessary knowledge by self-studying project management, drone components, and drone assembly.

- We won the Amateur Category at Mexico Drone Nationals (Nov. 2022).

## Volunteering

Peer Mentor Program at Tecnológico de Monterrey 2021 - 2024 Peer Mentor Mexico City CONECTA (TEC de Monterrey Newsletter)

Member of the University Program Supporting new students to adapt in their first year. One of the most successful in establishing good communication and support networks. After program completion, I am training the next generation of Peer Mentors. Still teaching self-management, study, and emotional skills.

NASCAR MEXICO SERIES Aug. 2022 - Jul. 2023 Track Marshal at Technical Inspection Team Nationwide, Mexico

Project on Solidarity & Sustainable City, Water and Life Summer 2022 Staff Mexico City CONECTA (TEC de Monterrey Newsletter)