ALEJANDRA COETO SANCHEZ

+52 8111751674
alecoeto@hotmail.com

in
www.linkedin.com/in/alecoeto

https://github.com/Ale-Coeto

Web page (portfolio):
https://ale-coeto.github.io/portafolio/

EDUCATION

Tecnológico de Monterrey
Computer Science Engineering

Expected graduation date:
June 2026
Current GPA: 99/100

Relevant courses:
Computational thinking (Python)
Intermediate mathematical modelling

Prepa Tec Eugenio Garza Lagüera (2019-2022)
International Baccalaureate Diploma

IB score: 42/45
GPA: 98/100
Honors

Relevant courses:
Computer Science HL
Mathematics: analysis and approaches SL
Business and Management HL

PROJECTS

Hack MTY
Sep 2022

Programmed a java desktop prototype application that optimizes vaccine distribution by finding nearby hospitals that could donate vaccines (during the 24 hour Hackathon with my team). Implemented mainly OOP, ordering algorithms and java GUI.

Personal project
July 2022

Designed and assembled a device with an ESP8266 to measure water level on a water tank and present the mearurements through wifi on an web page, using Arduino, HTML and CSS. Product useful due to the scarcity of water supply during summer.

Hackathon Caterpillar
May 2022 - Jun 2022

Developed a smart shower head protoype with Arduino to reduce water waste by programing an electrovalve system with a temperature and an ultrasonic sensor and designing a CAD product.

App development
Aug 2021 - Mar 2022

Developed an agenda and customer record computer application for a small business using java, OOP, searching and sorting algorithms, stacks, hashtables and libraries for calendars and editing of xlsx files.

LEADERSHIP

Roborregos
Sep 2022 - Present

Joined the robotics team from Tec de Monterrey by participating in their "Candidates" competition and achieving 5th place with my team. Programmed and optimized the solution to a maze using C++ and Arduino to control the robot.

VantTec
Aug 2022 - Present

Joined the student group *Non Tripulated Autonomous Vehicles* from Tecnológico de Monterrey in the roboboat proyect on the mechanics area.

VOLTEC Robotics
Aug 2019 - Present

Led the engineering department of the high school team VOLTEC Robotics (70 - students). Participated in three FIRST Robotics Competition seasons (programming, CAD and mechanics).
Taught robotics to more than 20 3rd grade students during summer.
Currently mentor the high school FIRST Tech Challenge team (15 students).

Vitales
Sep 2020 - May 2021

Coordinated the marketing team on proyects and campaigns with the aim of serving the community and meeting ecoligal goals, impacting over 200 people.

MIT Summer Camp
May 2019

Participated in the girl summer camp *Patrones Hermosos* and learned about computational thinking.

SKILLS

Java (3 years)
OnShape - CAD (3 years)
HTML / CSS (1 year)

Arduinio / C++ (4 months)
Python (3 months)
Javascript (2 months)

Matlab (2 months)
Adobe Lightroom (1 year)
Microsoft Office

English (B2)
German (B1)
Spanish (Native)

AWARDS

June 2022 — 1st Place in the *Educar Niñas Cambia el Mundo* hackathon (teams)
May 2022 — Diploma for student development and sport leadership
May 2022 — Diploma *Orgullo Prepa Tec* and Best Grade Averages

HOBBIES

Sport climbing
Basketball
Robotics
Competitive programming