

ALEJANDRA COETO SANCHEZ



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EDUCATION

Tecnológico de Monterrey Computer Science Engineering

Expected graduation date: June 2026

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

IB score: 42/45

General average: 98/100

Honors

Ranking: 2/480 students

Computer Science 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 measurements through wifi on a 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 prototype with Arduino to reduce water waste by programming 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.

ACTIVITIES

VantTec

Aug 2022 - Present

Joined the student group *Non Tripulated Autonomous Vehicles* from Tecnológico de Monterrey in the roboboat project 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 projects and campaigns with the aim of serving the community and meeting ecological 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)
Arduino / C++ (4 months)

Python (3 months)
Javascript (2 months)
Adobe Lightroom (1 year)
Microsoft Office

Github:

<https://github.com/Ale-Coeto>

Web page (portfolio):

<https://ale-coeto.github.io/portafolio/>

AWARDS

Jun 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