Greta Retana Reyes

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Skills

I excel in leadership positions and for my problem solving skills. Teamwork. Risk taking. Strategy and planning.

Languages

English (TOEFL: 670 points)

German (ÖSD: A2)

Software

Ansys Fluids and Structures

SOLID WORKS

Siemens NX

XFLR5

LabView

MATLAB

SkyCiv

MPLAB X IDE - Assembly

Fluid SIM

Python

OBJECTIVE

Apply my engineering knowledge, leadership and teamwork skills in solving problems in the Mexican and foreign engineering industries, building my experience in order to improve pre-existing solutions and create new ones.

ACADEMIC EDUCATION

Instituto Tecnológico de Monterrey Campus Ciudad de México

Mechatronics Engineering (IMT): 2018 - present

Awarded a scholarship for Academic Excellence. Awarded the Academic Excellence Recognition in August-December 2018, January-May 2019 and August-December 2020.

International Baccalaureate Program: 2015-2018

Awarded a scholarship for Academic Excellence. Diploma included the subjects: Physics HL, Computer Science HL, Further Math HL, Spanish Literature HL, ITGS SL and German ab. Researched optics for the Physics IA.

EXTRA ACADEMIC EXPERIENCE

SAE AERO DESIGN:

2018-2019 — Collaborated in the validation and manufacture of the cargo aircrafts that achieved 3rd Place at SAE Aero Design Mexico and 11th place at SAE Aero Design West, the later was the best performance by a Mexican team.

2019-2020 — Collaborated in the structural design and validation through CAM of the cargo aircraft, reduced the structural weight by 30% compared to previous year. The aircraft was awarded the 6th place in SAE Aero Design West.

2020-2021 — Led our university's competing team as captain and leader of the structural design team, achieving a 20% lighter structure and the first delivery aircrafts by the team. The aircrafts achieved 5th place in SAE Aero Design West.

SAIA: aerospace engineering student society: *2018-2021*

Participating in SAE Aero Design competitions furthered my knowledge in manufacture, simulation and aeronautics, my teamwork and problem-solving skills. Acting as leader of the structural team, captain and president of SAIA has developed my leadership and team management skills, resulting in SAIA's first delivery aircraft and autonomous aircrafts.

I aided in the organization of 'Science for All', an event with the objective of promoting the inclusivity of minority groups in STEM fields. I imparted a workshop on fuselage structural design as part of the event, guiding participants new to aeronautical engineering.

Drone design at Voluntary Intelligence Center: *2021*

With the objective of designing a drone that can be deployed during emergency scenarios, I tackled the weight reduction to increase the speed of the drone.

WORKSHOPS AND COURSES

Technische Universität Graz and Karl-Franzens-Universität: *2022*

Applied my engineering knowledge to solve problems in machine tools and NASA space missions contexts through courses such as 'Design and Development of Space Qualified Hardware'

NanoLab — Monterrey Tec-MIT Nanotechnology Program: *2021*

Learnt about state of the art technology for nano actuators, the production of transistors and micro components.

Kansai Gaidai University, Asian Studies Program: *2020*

Through the courses on East Asian media, culture and history, I broadened my understanding of foreign cultures and developed skills in analyzing the societal context of media and how media impacts society.

Building Leadership Seminar — LEGO Education: *2018*

Employed my skills on teamwork, problem-solving and leadership to tackle different challenges along people from different areas of engineering and business management.