

# LUCA EUGENIO BELAUNZARÁN CONSEJO

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Trilingual Aerospace Engineering student with a strong expertise in programming and embedded systems, seeking to specialize in aeroservoelasticity and aeronautical control systems. Experienced in machine learning, simulation, avionics, analog electronics, digital design, numerical methods and bare metal programming.

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## EDUCATION

### GREEN BAY HIGH SCHOOL (2015-19)

Auckland, New Zealand

NCEA Level 1—Merit Endorsement

NCEA Level 2—Excellence Endorsement

NCEA Level 3—Excellence Endorsement

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### FACULTY OF ENGINEERING, UNAM (2021-)

Ciudad Universitaria, México City

Aerospace Engineering—Aeronautical exit module

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### AGH UNIVERSITY (2025)

Kraków, Poland

Exchange Semester—WIMiR

Courses on RTOS, Machine Learning, CFD and Quadcopters

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## SKILLS

### LANGUAGES

Spanish—Native

English—IELTS 8.5

French—DELF B2

Programming languages—C, C++, Go, Python, Assembly(Arm Cortex-M4), BASH, VHDL

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### DOMAINS

Aeroservoelasticity—Aeroelasticity, Control

Embedded—FreeRTOS, QNX, pico-sdk

Machine Learning—Reinforcement Learning, CNNs

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### SOFTWARE

OS/Tools—GNU/Linux, L<sup>A</sup>T<sub>E</sub>X, Neovim, Hugo

CAD & EDA—Inventor, Solidworks, FreeCAD, KiCad

Simulation—OpenModelica, OpenFOAM, Simulink, QUCS

Computing—MATLAB, Octave, Wolfram, Jupyter, GoNB

Other—git, Quartus, gnuplot, XFLR5, Torch, CMake

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## PROJECTS AND TECHNICAL EXPERIENCE

### UASISI (2025-)

MODULAR SIMULATION FRAMEWORK — [git](#)

#### Developer

- Created a C++ signal-based simulation framework optimized for wing phenomena
  - Wrote 10 initial modules, including a Python wrapper
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### DRONE DESIGN AND DEVELOPMENT (2023-24)

DRONE & UAV COMPETITION TEAM

#### Avionics Team Lead

- First Mexican team to qualify for AIAA's DBF competition in Tucson, Arizona
- Managed an engineering team spanning multiple areas (wiring, power distribution, firmware, control, testing)
- Designed avionics systems and sized relevant components accordingly

### CONNECTIVITY OVERSIGHT BOARD (2022-2024)

STUDENT ORGANIZATION

#### Student Head

- Oversaw the temporary upgrade of the old faculty wireless network
- Reviewed, modified and approved the topology for the new wireless network
- Worked closely with faculty and university administration to allow student volunteers to partake in setting up the new network
- Managed more than 600 students and negotiated with faculty administration to provide volunteers with free courses and certifications with curricular value
- Followed through weekly until the new network project was completed before dissolving the oversight board