# Luca Eugenio Belaunzarán Consejo

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Trilingual Aerospace Engineering student with a strong expertise in embedded systems, seeking to specialize in aeroservoelasticity and aeronautical control systems. Experienced in avionics, analog electronics, digital design, numerical methods and bare metal programming. Well versed in minimalist GNU/Linux distributions. Seeking internship opportunities in control system design, aeroelasticity, or related fields.

## Education

### Green Bay High School (2017-2019)

Auckland, New Zealand

**NCEA Level 1**—Merit Endorsement
**NCEA Level 2**—Excellence Endorsement
**NCEA Level 3**—Excellence Endorsement

### Faculty of Engineering, UNAM (2021-)

Ciudad Universitaria, México City

**Aerospace Engineering**—Aeronautical exit module

### LIESE, UNAM (2024-)
Space Systems Electronic Instrumentation Laboratory

Ciudad Universitaria, México City

**Social Service**—ADCS Project
Developing ADCS test bench

## Skills

### Languages

**Spanish**—Native
**English**—IELTS 8.5
**French**—DELF B2
**Programming languages**—C, Go, Assembly(Arm Cortex-M4), BASH, VHDL

### Operating Systems

**Windows**—7,8,10,11
**GNU/Linux**—Void-Linux, Arch-Linux
**Embedded**—FreeRTOS

### Software

**Productivity**—Office, LaTeX, Vim, Neovim
**CAD & EDA**—Inventor, Fusion360, KiCad
**Simulation**—OpenModelica, OpenFOAM, Simulink, QUCS
**Computing**—MATLAB, Octave, Wolfram, Jupyter, GoNB
**Other**—git, Quartus, Gnuplot, XFLR5

## Projects and Technical Experience

### Drone Design and Development (2023-)
Drone & UAV Competition Team

**Avionics Team Lead**

- First mexican team to qualify to 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

### LIESE (2024-)
Space Systems Electronic Instrumentation Laboratory

**Social Service Intern**

- Working in an ADCS for a nanosatelite following the CubeSat standard
- Developing an air bearing test bench to validate ADCS performance through *hardware-in-the-loop* simulation

### 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