

Aeronautical Engineer

Lautaro Kamimura Varela

December 9, 1993

Castelar, Buenos Aires, Argentina

EXPERIENCE

DRONESECURITY - Aeronautical Engineer

2022 - PRESENT

- Responsible for analysis and design
- Responsible for guided navigation and control development
- Research and development
- Formulation of technical and legal documentation
- Project coordination (Complex Systems Engineering)

DRONESECURITY - Drone Test Pilot (VANT/SANT lic. N° 37792129)

2022 - PRESENT

- In-flight system testing
- Post-analysis and decision-making
- Preparation and adaptation of facilities

UNIVERSIDAD TECNOLÓGICA NACIONAL FACULTAD REGIONAL HAEDO - Professor

2025 - PRESENT

- Director - Autonomous Vehicles Laboratory
- Head of Practical Work - Fluid Mechanics - Industrial Engineering
- Head of Practical Work - Rational Mechanics - Railway Engineering

2018 - PRESENT

- Head of Practical Work - Control Systems - Aeronautical Engineering

2023 - PRESENT

- Head of Practical Work - Dynamic Systems Identification - Aeronautical Engineering

2018 - 2021

- Research Fellow - Aerospace Technology Group

2018

- Research Fellow - Computer Science Studies Center

ORT ARGENTINA - Professor

2021 - PRESENT

- Full Professor: Mathematics - Systems Analyst
- Full Professor: Introduction to Computer Science - Systems Analyst

PIMAX - Electronic Technician

2021 - 2022

- Responsible for the digital X-ray acquisition laboratory
 - Commissioning, calibration, and integration of equipment
 - Training and Capacitation for clients
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EDUCATION

UNIVERSIDAD TECNOLÓGICA NACIONAL FACULTAD REGIONAL HAEDO

- Aeronautical Engineer
2012 - 2022
- Web Programming
2011 - 2012

DRONES VIP

- Remote Pilot (VANT/SANT) Rotary Wing (Class B)
2023

ESCUELA SECUNDARIA TÉCNICA N°8

- Electronic Technician oriented to instrumentation, automation, and control
2006 - 2011

UNIVERSIDAD INTERNACIONAL DE LA RIOJA (SPAIN)

- Course in Generative Artificial Intelligence Applied to Education
2025

UNIVERSIDAD NACIONAL DE SAN MARTÍN - Instituto Colomb

- Seminar "Satellite Propulsion Systems"
2018

MEGARED

- Course "Renewable Energies"
2018
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Projects

- **6 Degrees of Freedom Balance**
Aerospace Technology Group (UTN-FRH)
Presented at "1st Congress of Transport and Associated Technologies" and "CAIA" (2021)
2020 - 2023
- **Nozzle with Thrust Vector Control (TVC)**
Aerospace Technology Group (UTN-FRH)
2019 - 2021
- **Software for Structured Piping Meshing**
Wing Profile Simulation in Wind Tunnel
Aerospace Technology Group (UTN-FRH)
Presented at "1st Congress of Transport and Associated Technologies"
2018

Software

- **Fluid dynamics simulation:** OpenFoam (CFD), Ansys Fluent
- **Finite element simulation:** Freecad, Ansys Mechanical
- **Numerical calculation:** Python, Matlab, Scilab, Octave
- **Symbolic calculation:** Mathematica, Maxima
- **3D Design:** Freecad, Solid Edge, SolidWorks, Autocad
- **3D Printing:** Blender, Onshape, Cura
- Artificial Intelligence Automation (MAKE)
- Windows, Linux, MacOS, IOS, Android
- PowerBI, Word Processor, Spreadsheet, PowerPoint
- Raspberry Pi, Arduino, PX4
- HTML, CSS, Flash, Java

Languages

- **English:** Advanced
- French: Intermediate (Modules 1 and 2 - Alliance Française - 2017-2018)
- Japanese: Basic (Japanese Association Seibu - 2011)

Other knowledge and tools

- Project administration
- Team leadership
- Coordination with other departments
- Development of technical documents
- Development of administrative and legal documents
- Programming oriented to practical projects
- Programming oriented to theoretical problem solving
- PC assembly and repair, Networks
- Arc welder, Pencil-type soldering iron
- Multimeter, Oscilloscope, Signal generator
- Hand drill, Bench drill, Grinder

Other

- Time availability.
- Search for professional growth (application of current knowledge and acquisition of new training and knowledge).
- Willingness to relocate for work within or outside the country.

- Preference for a technical position (engineering).
- Driver's license.
- VANT pilot license (Drone cat. B)

About me

I consider myself an active, productive, responsible, and demanding person. I like to be learning and developing new content in an organized manner.

I believe I have good performance in personal and professional relationships and in organizing group work due to my experience as a student and teacher.

I enjoy the area of teaching and constant learning. I have an aptitude for learning languages and wish to learn new ones and continue improving those I already know.

I am an electronics and programming enthusiast; recycling, reusing, and reinventing discarded or obsolete technology to use them in new, generally collaborative projects.

I look forward to finding new challenges and increasing my work experience in the engineering field. I am interested in training and developing with new experienced colleagues, as well as courses and webinars.