

SERGIO EDGARDO URZÚA CORREA

+33 06 22 86 36 96 ◊ Compiegne, France

sergiourzuac@gmail.com ◊ linkedin.com/in/sergio-uc

OBJECTIVE

Robotics engineer specialized in robotics and advanced manufacturing with experience in research, design, modeling and control of aerial robots, seeking control engineer & embedded software engineer roles.

EDUCATION

Doctor of Science , Cinvestav - Heudiasyc	2024 - Present
PhD on a cotutelle program in Robotics	
Master of Science , Centro de Investigación y de Estudios Avanzados del IPN (Cinvestav)	2021 - 2023
Master of Science in Robotics and Advanced Manufacturing	
Robotics Engineer , Universidad Autónoma de Aguascalientes	2016 - 2020

SKILLS

Technical Skills	Electrical Circuits, Electronics, CAD, CAE, Linux, CAM Mechatronics, Mechanical Design, Embedded Systems, Electronic Design, Technical Writing
Soft Skills	Problem-solving, Effective communication skills, Adaptability, Flexibility, Teamwork, Research, Open-mindedness, Curiosity, Patience
Programming Languages	C, C++, Python, Matlab/Simulink, Java, L ^A T _E X, Assembly, VHDL

EXPERIENCE

Junior Researcher	Sep 2025 - Present
Universite de technologie de Compiegne, Heudiasyc	<i>Compiegne, France</i>
• Research in aerial robotics.	
Research Assistant	Sep 2021 - Present
Centro de Investigación y de Estudios Avanzados del IPN (Cinvestav)	<i>Ramos Arizpe, Mexico</i>
• Research in aerial robotics proposing a robust control for aerial physical interaction with a quadrotor.	

PROJECTS

Soft robotic haptic. Implementation of pose estimation algorithms and embedded software development ([Publication](#))

Force-Position control for a quadrotor. Design, modeling and control of a quadrotor for physical interaction task, implementation of the controller in C++ for embedded Linux and experiment design. ([Publication](#))

Reinforcement learning based control for a quadrotor Implementation of the controller in C++ for embedded Linux achieving less energy consumption. ([Publication](#))

LANGUAGES

- Spanish (write, read, speak): Native speaker
- English (write, read, speak): B2 (Linguaskill 167)
- French (write, read, speak): A2

CERTIFICATIONS

- Linguaskill (2025)