

SERGIO EDGARDO URZÚA CORREA

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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, \LaTeX , Assembly, VHDL

EXPERIENCE

Junior Researcher Sep 2025 - Present
Universite de technologie de Compiegne, Heudiasyc *Compiegne, France*

- Research in aerial robotics.

Research Assistant Sep 2021 - Present
Centro de Investigación y de Estudios Avanzados del IPN (Cinvestav) *Ramos Arizpe, Mexico*

- 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)