Carlos Alberto Granados Ybarra ![ORCID]

📞 (+51) 973829504   💼 carlos-granados-ybarra   ✉ carlos.granados@pucp.edu.pe

I am a graduate with a bachelor's degree in Electronic Engineering. My education includes strong knowledge in artificial intelligence, cloud computing, and robotics. I stand out for my keen analytical ability, leadership skills, effective decision-making, self-management, efficient teamwork collaboration, resilience in the face of challenges, and a passion for continuous learning.

EDUCATION

Pontifical Catholic University of Peru | *Electronic Engineering*　　　　　　　　　Aug. 2019 - Jul. 2025

Programa Nacional de Becas y Crédito Educativo (PRONABEC): Scholarship recipient (Beca 18)

Alura | *Oracle Next Education*　　　　　　　　　Mar 2023 - Feb. 2024

- OCI - Oracle Cloud Infrastructure
- Databases with MySQL
- Data Analysis with Python

Colegio Mayor Secundario Presidente del Perú - COAR Lima　　　　　　　　　Mar. 2016 - Dec. 2018

International Baccalaureate Diploma(IB): Diploma Programme(DP)

EXPERIENCE

DeepLearning.AI | *Tester*　　　　　　　　　Feb. 2025 - Today

- Actively participated in testing various AI-related short courses and specializations at DeepLearning.ai, collaborating with other testers and the development team.

- Conducted thorough tests to validate and verify the AI course modules, ensuring the quality and accuracy of the content.

- Provided suggestions and feedback to optimize and enhance the course modules based on detailed testing and analysis.

Pontifical Catholic University of Peru | *Teaching Assistant*　　　　　　　　　Aug. 2024 - Today

- Assisted in teaching advanced concepts in robotics and artificial intelligence, including robotic system design, navigation algorithms, and kinematic and dynamic modeling.

- Supported practical sessions focused on implementing and programming Artificial Neural Networks (ANN) and Convolutional Neural Networks (CNN) for tasks such as classification, object detection, and segmentation.

- Supervised laboratory activities using Python programming and frameworks like TensorFlow and PyTorch to train machine learning models for robotic applications.

- Collaborated on group project development, integrating programming, electronics, and mechanics, and guided students in simulating and programming mobile robots and manipulators.

ISA Red de Energía del Perú | *Cybersecurity Intern*　　　　　　　　　Apr. 2024 - Mar. 2025

- Applied advanced digital tools, including Excel, Python, Power BI, RPA, and Big Data technologies, to enhance data analytics and solution implementation.

- Participated in strategic cybersecurity projects ithin the company's network, contributing to the enhancement of security protocols and incident management systems.

- Supported the development of digital tools to visualize compensatory controls and risk levels in cybersecurity, improving the overall security posture.

Intelligent Robotics Research Group PUCP (GRIP) | *Research Assistant*   Mar. 2022 - Today

- I taught programming classes in C and Python to undergraduate students.

- I organized and conducted three introductory workshops for 120 pre-admitted students in the mechatronics engineering program, where they learned to develop a technological project using manufacturing and electronic design technologies.

- I organized and conducted two workshops on Agile methodologies, Design Thinking, and Lean Startup for 15 members of the group.

- I led four research projects, receiving four international recognitions and publishing six scientific papers on topics related to HRI, IoT, and robotics.

- I participated in the AWS DeepRacer Student League competition, achieving consecutive monthly first-place finishes and ranking in the top 10% globally in 2023. For this competition, I employed reinforcement learning models to optimize the vehicle's performance in the race.

LICENSES & CERTIFICATIONS

- **Microsoft**: Azure AI Engineer Associate (AI-102)
- **DeepLearning.AI**: Machine Learning Specialization
- **DeepLearning.AI**: How Diffusion Models Work
- **GitHub**: GitHub Foundations
- **HuggingFace**: AI Agents Fundamentals
- **DataCamp**: Data Engineer Associate
- **Google**: Google Cloud Computing Foundations

SKILLS

- **Tools and Software**: Python, C, C++, Git, Microsoft Azure, Google Cloud Platform, AWS Cloud.
- **Technical Skills**: Human-Robot Interaction (HRI), Machine Learning, Generative AI, Deep Learning, Neural Networks, Reinforcement Learning, Computer Vision, Signal Processing.
- **Visualization Skills**: Power BI, Tableau, Looker Studio.

AWARDS & ACHIEVEMENTS

Best Narrative Award for Student Design Competition (TEI 2024) | *ACM*   Feb. 2024
Honorable Mention for Robot Design Process (RO-MAN 2023) | *IEEE*   Aug. 2023
Speaker in Arduino Day 2023 | *Arduino*   Apr. 2023
Finalist in Robot Design Competition (ICSR 2022) | *Springer*   Dec. 2022

LANGUAGES

Spanish | *Native*

English | *Advanced*