Carlos Alberto Granados Ybarra iD

📞 (+51) 973829504   in 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)

Colegio Mayor Secundario Presidente del Perú - COAR Lima   Mar. 2016 - Dec. 2018
International Baccalaureate Diploma(IB): Diploma Programme(DP)

EXPERIENCE

Fuse | *Junior Software Developer*   Aug. 2025 - Present

- Developed and maintained software applications in compliance with project requirements, ensuring quality, efficiency, and adherence to best development practices throughout the product lifecycle.

- Participated in the design and implementation of two AI-based MVPs, including automated verification systems using conversational agents and intelligent document extraction solutions; defined evaluation metrics, developed analytical workflows, and contributed to the design of dashboards for performance monitoring.

- Collaborated in resolving technical issues, optimizing processes, and deploying updates, contributing to system stability, continuous improvement, and the adoption of AI solutions across the company ecosystem.

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

- Assisted in teaching the courses Robotics and Artificial Intelligence (1MTR53) from the School of Science and Engineering, and Programming in Finance (1FIN14) from the School of Social Sciences.

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

- Supervised lab activities using Python programming and frameworks such as TensorFlow and PyTorch to train machine learning models applied to robotics and the financial sector.

- Collaborated in the development of group projects integrating programming, electronics, and mechanics, and guided students in the simulation and programming of mobile and manipulator robots.

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

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

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

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

Intelligent Robotics Research Group PUCP (GRIP) | *Research Assistant*   Mar. 2022 - Jul. 2025

- 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, Git, Microsoft Azure, Google Cloud Platform, AWS Cloud.
- **Technical Skills**: AI Agents, Machine Learning, Generative AI, Deep Learning, Neural Networks, Reinforcement Learning, Computer Vision.
- **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*