

Jesús Castillo J.

CONTACT	Artificial Intelligence Engineer – Master Student Current Residency: Lima, Peru. Citizenship: Peruvian GitHub: https://github.com/jescas981	mobile: +51 925-615-991 e-mail: jescas981@gmail.com Portfolio: Jescas981 LinkedIn: Jesus Castillo
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RESEARCH INTERESTS	Computer Vision, 3D Perception, SLAM, Sensor Fusion, Robotics, Deep Learning Models.
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EDUCATION

Universidad de Ingeniería y Tecnología (UTEC) , Lima, Peru <i>M.Sc. Artificial Intelligence</i> Cumulative Grade: 17.42/20.0	2027
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Universidad Tecnológica del Perú (UTP) , Lima, Peru <i>B.S. Electronics Engineering</i> Cumulative Grade: 15.57/20.0	2025
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Instituto Tecnológico del Perú (TECSUP) , Lima, Peru <i>Industrial Mechatronics Technician</i>	2018
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COLLABORATIONS

NeuromatchAI <i>Project: Behavioral and Computational Analysis of Prior Expectations and Sensory Evidence in Perceptual Estimation</i>	2026
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WORK EXPERIENCE

Artificio Inc. <i>Independent Perception Researcher</i>	2026 – Present
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- Leading a research paper on 3D reconstruction, from methodology design to experimentation and writing.
- Present findings and technical progress to collaborators and stakeholders on a recurring basis.

MultiPerception AI <i>Tech Lead</i>	2026
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- Led a research team focused on developing advanced perception products for real-world deployment.
- Designed scalable cloud architectures to support distributed systems running across multiple devices.
- Coordinated cross-functional delivery with operations, UI/UX, and back-office teams, ensuring robust end-to-end solutions.

MultiPacha 4.0**2021 – 2024***Software & Hardware Developer*

- Led core logic development for Scantec, a LiDAR- and point-cloud-based perception solution.
- Analyzed existing 3D models and developed proprietary C++ algorithms to process and structure spatial information.
- Applied linear algebra and calculus fundamentals to build custom labeling and perception tools for the system.

Playtec EDU 4.0**2020***Robotics Teacher*

- Participated in educational outreach campaigns to introduce robotics to new students.
- Taught robotics classes to students across a wide range of ages and schools.
- Improved the robotics curriculum module to make it more intuitive and accessible for students.

RESEARCH PROJECTS

SparseCity**In Progress***M.Sc. Thesis, UTEC*[Presentation](#)

- Developing a sparse, hierarchical, point-based generative model for 3D urban scenes, addressing the memory inefficiency of dense volumetric methods.
- Manuscript in preparation, targeting CVPR 2027.

Barranco3D**In Progress***Collaboration with Artificio*[Presentation](#)

- Multi-platform urban 3D reconstruction benchmark (drone, car, pedestrian, Mapillary) of Lima landmarks.
- Quantified marginal viewpoint contribution per platform via ablation using COLMAP as unified baseline.
- Manuscript in preparation, targeting CVPR 2027.

CERTIFICATIONS

Neuromatch Academy – Computational Neuroscience**2026****AIDEA for Education** – STEM EdHACK**2026****DeepLearning.AI** – Neural Networks and Deep Learning**2024****Coursera** – Machine Learning & Deep Learning**2021****Coursera** – Computer Vision**2020**

LANGUAGES

Native Spanish

Advanced English