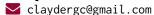
Clayder Gonzalez Cadenillas, M.Sc.



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Education

- 2016 − 2019 M.Sc. Electrical Engineering, University of Chile
 Thesis title: An Improved Feature Extractor for the LiDAR Odometry and Mapping Algorithm.
 - Informatics Engineer, National University of Trujillo

 Thesis title: Design of an Embedded System to Control a Robot Arm Using Voice Commands.
- 2008 2012 | B.S. Computer Science, National University of Trujillo

Research Publications

Conference Proceedings

- R. J. H. Kemper, **C. Gonzalez**, and S. R. P. Gardini, "Autonomous navigation of a four-wheeled robot in a simulated blueberry farm environment," in *2022 IEEE ANDESCON*, 2022, pp. 1–6. %DOI: 10.1109/ANDESCON56260.2022.9989865.
- C. Gonzalez and M. Adams, "An improved feature extractor for the lidar odometry and mapping (loam) algorithm," in 2019 International Conference on Control, Automation and Information Sciences (ICCAIS), Cited by 7, 2019, pp. 1–7. DOI: 10.1109/ICCAIS46528.2019.9074665.
- M. Mattamala, G. Olave, **C. Gonzalez**, N. Hasbún, and J. Ruiz-del-Solar, "The nao backpack: An open-hardware add-on for fast software development with the nao robot," in *RoboCup 2017: Robot World Cup XXI*, H. Akiyama, O. Obst, C. Sammut, and F. Tonidandel, Eds., **Cited by 12**, Cham: Springer International Publishing, 2018, pp. 302–311, ISBN: 978-3-030-00308-1. %DOI: 10.1007/978-3-030-00308-1_25.
- 4 C. Gonzalez-Cadenillas and N. Murrugarra-Llerena, "Isolated words recognition using a low cost microcontroller," in 2013 III Brazilian Symposium on Computing Systems Engineering, Cited by 5, 2013, pp. 77–82. %DOI: 10.1109/SBESC.2013.28.
- **C. Gonzalez-Cadenillas** and G. Reaño-Ortega, "Sistema de clasificacion automatica de objetos etiquetados con digitos escritos a mano usando ocr y redes neuronales," in 2012 Congreso Nacional de Estudiantes de Ingenieria Mecanica, Electronica y Ramas Afines, 2012, pp. 1–6.

Participation in Funded Research Projects

- 2022 2023 Co-Researcher, Development of a Multi-functional Machine for the Sowing of Seeds of Different Sizes in Multi-cell Trays and Pealing of Seedlings according to the quality of Growth in Plant Nurseries at La Libertad-Perú, Funded by Consejo Nacional de Ciencia y Tecnologia (CONCYTEC), Peru.

Skills

Coding C++, C, Python, Matlab, Microchip C, PIC Microncontroller Assembly, X86 Assembly,

Latex.

Libraries Point Cloud Library (PCL), Eigen Library, CUDA, OpenCV.

Frameworks Robot Operating System (ROS).

Misc. Academic research, teaching, Latex typesetting and publishing.

Employment History

ZO14 − Today Guidance Teacher, Universidad de Buenos Aires (UBA), Embedded Systems Specialization, Project: Power Subsystem for Underwater Robotics, Student: Nicolas Hasbun.

Embedded Software Developer, Delion Group, Project: Dfrag, A LiDAR-based Embedded System to Compute Surfaces Volumes after Mining Blasting.

2020 – Today Assistant Professor. School of Electronics Engineering, Antenor Orrego Private University, Subjects: Robotics and Artificial Intelligence, Digital Signal Processing, Computer Programming.

2018 − 2019 Lecturer. School of Electronics Engineering, Antenor Orrego Private University, Subjects: Digital Signal Processing, Computer Programming.

2015 − 2016 Mobile Developer. Wando Group

■ Teaching Assistant. School of Electronics Engineering, Antenor Orrego Private University, Subjects: Computer Programming.

2008 – 2010 Web-master. Sociedad de Estudiantes de Ciencia de la Computacion (SECC)

Miscellaneous Experience

Awards and Achievements

First Place, 2021 INTERCON Minesweeper Robots Contest, Federico Villareal National University - IEEE Peru Section.

Honorable Mention, 2012 ACM - International Collegiate Programming Contest, South America/South Regional Contest, ACM-ICPC.

■ **Second Place**, 2012 COINTEC - Projects Fair, School of Electronics Engineering, Antenor Orrego Private University.

First Place, 2006 Congreso de Ingenieria de Sistemas - Programming Contest, School of Computing Systems, Antenor Orrego Private University.

Certification

Fundamentals of Accelerated Computing with CUDA C/C++. Awarded by Nvidia Deep Learning Institute.

■ Modern Robotics, Course 1: Foundations of Robot Motion. Awarded by Northwestern University.

Advanced microcontrollers. Awarded by National University of Trujillo.

Certificate of Competency in English. Awarded by English Language Institute - University of Michigan.

References

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Prof Ricardo Prado Gardini

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