Claudio César Claros Olivares

ELECTRONICS ENGINEER

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Education

Universidad Mayor de San Andrés (UMSA)

M.Sc. in Electronics Engineering

La Paz, Bolivia Oct. 2020 - present

University of Delaware (UDel)

Delaware, USA Aug. 2018 - Aug. 2020

M.Sc. IN ELECTRICAL & COMPUTER ENGINEERING

• Concentration: Signal Processing, Communications, and Controls

• Thesis title: "Synergistic Human-Machine Prediction: Active Error Analysis and Mitigation with Gaussian Process Regression" (advisor: Prof. Dr. Austin J. Brockmeier).

GPA: 3.933/4.000

Centro Psicopedagógico y de Investigación en Educación Superior (CEPIES)

SHORT-TERM CERTIFICATE PROGRAM IN UNIVERSITY TEACHING

La Paz, Bolivia Aug. - Nov. 2015

La Paz, Bolivia

Universidad Mayor de San Andrés (UMSA)

B.S. IN ELECTRONICS ENGINEERING · Major: Control Systems

Feb. 2007 - Dec. 2014

• Graduation project: "Prototipo para generación de consignas de control a partir de los ritmos cerebrales alpha y mu - Caso de estudio: Factibilidad de uso de la plataforma Emotiv EPOC" (advisor: Prof. Javier Sanabria García).

Class Valedictorian

Don Bosco "El Prado" High School

TECHNICAL SCHOOL GRADUATE Graduated with honors

La Paz, Bolivia

Feb. 1995 - Dec. 2006

Skills_

Programming Languages PYTHON, C/C++, MATLAB, OCTAVE, JAVASCRIPT, JULIA

Programming Libraries OPENCV, CUDA, SCIPY, NUMPY, PANDAS **Machine Learning Frameworks** TENSORFLOW, PYTORCH, KERAS, SCIKIT

> Languages English (TOEFL: 104/120, ECCE), French (DELF B2), Spanish (Native)

Experience_

Computational Neural and Information Engineering Lab, UDel

Delaware USA

RESEARCH ASSISTANT

· Developed a synergistic system for human-machine prediction through active error analysis of models systematic errors using Gaussian process regression.

Jul. 2019 - Aug. 2020

Institute of Applied Electronics, UMSA

La Paz, Bolivia Jun. - Dic. 2017

RESEARCHER · Designed and implemented of embedded software dedicated to signal acquisition and control of a mobile robot prototype for multi-agent research.

Institute of Applied Electronics, UMSA

La Paz, Bolivia Abr. - Dic. 2016

· Developed a platform for mobile sensor nodes deployed in controlled environments which integrates the design of the robotic units and the implementation of data acquiring and signal processing tools.

Agencia para el Desarrollo de la Sociedad de la Información en Bolivia (ADSIB)

La Paz, Bolivia

RESEARCH INTERN

RESEARCHER

• Designed and implemented of an FPGA interface for Ethernet communication dedicated to packet acquisition and routing for the 'FPGA-based router' project.

Sep. - Dic. 2015

Electronics Engineering (EE) Department, Digital Signal Processing Lab, UMSA

La Paz, Bolivia Jul. - Dic. 2013

Responsible for the maintenance and operation of the digital signal processing laboratory.

Institute of Applied Electronics

La Paz, Bolivia Mar. - Ago. 2012

RESEARCH ASSISTANT Developed a software application for EEG acquisition and signal processing to conduct spectral analysis through Fast Fourier

Transforms.

LABORATORY ASSISTANT

CLAUDIO CÉSAR CLAROS OLIVARES · CURRICULUM VITAE

Ho	no	rs &	Aw	ards

2017	Bolivian Government Scholarship. National program that enables young professionals to pursue a M.Sc. or Ph.D. degree in a top university—30 out of 100 possible scholarships awarded this year.	La Paz, Bolivia
2015	Honorable Mention "Most Challenging Team". "Minesweepers: Towards a Landmine-Free World 2015" Competition. Team: "Bolivian Team".	Antofagasta, Chile
2015	Senatorial Declaration. Chamber Of Senators of the Plurinational Legislative Assembly of Bolivia. Acknowledgment for outstanding participation in the NASA Space Apps Challenge 2015.	La Paz, Bolivia
2015	Resolution of the Honorable University Council. UMSA. Congratulatory letter for outstanding participation in the NASA Space Apps Challenge 2015.	La Paz, Bolivia
	Worldwide Finalist . International NASA Space Apps Challenge 2015. Nationwide winner in the category "Best	
2015	Robotics Theme Project" and worldwide finalist in the category "Best Mission Concept Project" with the project "Sensor your Swarm".	La Paz, Bolivia
2015	Maximum score achieved on the undergraduate graduation project. EE Department, UMSA.	La Paz, Bolivia
2010	Remarkable academic performance. UMSA. Congratulatory letter awarded to the best students of the year	La Paz, Bolivia

Publications

- [1] C. C. Claros Olivares and J. Sanabria García, "Prototipo para generación de consignas de control a partir de los ritmos sensomotores. Caso de Estudio: Factibilidad de empleo de la plataforma Emotiv Epoc," in IEEE Bolivian Engineering and Technology Congress (BETCON) 2015, La Paz, Bolivia, 2015.
- [2] A. J. Brockmeier, C. C. Claros Olivares, M. S. Emigh, and L. G. Sanchez Giraldo, "Max-sliced bures distance for interpreting discrepancies," in The Thirty-eighth International Conference on Machine Learning, under evaluation, 2021.
- [3] C. C. Claros Olivares and A. J. Brockmeier, "Synergistic human-machine prediction: Active error analysis and mitigation with gaussian process regression," to be submitted.

Presentations	
"DARWIN Computing" Symposium	Delaware, USA
Poster presentation on "Active Error Analysis and Mitigation for Synergistic Machine Learning Infrastructure" • Organized by the Data Science Institute (DSI) of the University of Delaware	Feb. 2020
Special Interest Group in Artificial Intelligence (SIG-AI) Seminar	Delaware, USA
Invited Speaker on "Learning an error-aware model for synergistic Human-machine Prediction". • Organized by the Computer & Information Sciences (CIS) Department of the University of Delaware	Nov. 2019
IEEE Seminar on Artificial Intelligence	La Paz, Bolivia
Invited Speaker on "Digital Signal Processing Algorithms and Machine Learning". • Organized by the IEEE Student Branch of the Universidad Católica Boliviana	Apr. 2016
First International Scientific Congress on Engineering	La Paz, Bolivia
Invited speaker on the "Sensor your Swarm" project.	May. 2015
La Paz Ciudad Digital 2.0	La Paz, Bolivia
Invited speaker on "Research on Brain Signal Processing"	Aug. 2014