

Erick TORNERO

PERSONAL DATA

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WORK EXPERIENCE

Dec 2022 CURRENT	SPLINE INC, USA-Remote <i>Machine Learning Engineer</i> I have been working as an ML Engineer for over three years, where I have seen various projects such as Diffusion, NLP, and 3D Generative models.
Dec 2017 MAY 2017	LIMABIONICS SAC, Lima-Peru <i>Software and Hardware Engineer</i> Development of the state machine (C/C++) of a bionic arm prosthesis. Writing of Drivers and libraries for communication through UART port in STM32FX family. Testing and debugging of electronic boards oriented to conditioning and acquisition of myoelectric signals tasks.
APR 2017 DEC 2016	MECHATRONIC ENGINEERING ENGITRONIC SAC, Lima-Peru <i>Software and Hardware Engineer</i> Development of material for classes in robotics (implementations, coding examples), using technologies as <i>AppInventor</i> , <i>Scratch</i> , <i>Arduino</i> , <i>MBlocks</i> , <i>Unity3D</i> .
MAR 2017 JAN 2017	INICTEL-UNI, "Recreational Summer 2017", Lima-Peru <i>Partial-time teacher in Virtual Reality</i> Development of the class program and teaching Virtual Reality based on Google-VR SDK and Unity3D to children and teenagers.

RESEARCH EXPERIENCES:

Current MAR 2019	RESEARCH INTERN, Arequipa-Peru <i>Universidad Católica San Pablo (UCSP)</i> Development of a Fault Tolerant Controller to fly quadrotors despite failures in its rotors, applying AI techniques based in model-based RL. Using Python, Pytorch, ROS, Scikit-Learn, among others.
Oct 2019	INVITED SPEAKER AT IES DIVINO CORAZÓN DE JESUS, Cusco-Peru <i>Topic: Introduction to Deep Reinforcement Learning</i>
DEC 2019	ORAL SPEAKER AND POSTER PRESENTATION AT LATINX AI WORKSHOP IN NEURIPS2019, Vancouver-Canada <i>Topic: Reinforcement Learning Approach to Fly Quadcopters with a Faulted Rotor</i>

EDUCATION

- AUGUST 2020 Deep Learning Reinforcement Learning Summer School
Canadian Institute For Advanced Research (CIFAR) , Remote assistance.
- CURRENT Master of Science in COMPUTER SCIENCE, **Universidad Católica San Pablo**, Arequipa
MAY 2018 **Thesis in Progress:** "Reinforcement Learning Approach to Fly Quadcopters with a Faulted Rotor" | Advisor: PhD. Jose E. OCHOA
- JULY 2017 Bachelor Degree in MECHATRONICS ENGINEERING
APR 2012 **Universidad Nacional de Ingeniería**, Lima-Peru

AWARDS

- DEC. 2017 "*Business Model Competition UNI (BMC)*", Fourth Position.
Automated Aeroponics System.
- MAY. 2018 "*Full scholarship*" granted by CONCYTEC & CIENCIACTIVA to study
a full-time master's degree in computer science.
- DEC. 2019 "*LatinX AI Full Grant*", Travel, Accommodation and Registration
to NeurIPS-2019, Vancouver-Canada.

LANGUAGES

- SPANISH: Mothertongue
ENGLISH: Intermediate

COMPUTER SKILLS

- Deep Learning Pytorch, TensorflowJS, Lightning
Robotics Robot Operating System (ROS)
Operative Systems Linux, Windows
Version Controller Git
Ms Office Excel, PowerPoint, Word
Microcontrollers ARM Cortex, Arduino, PIC18
Others Docker

PROGRAMMING LANGUAGES

Language	Level	Frameworks/API's
C++	Intermediate	OpenGL QT
C	Intermediate	STM32 HAL Driver CUDA
Python3	Advanced	Pytorch
C#	Basic	GoogleVR/Unity3D
Latex	Intermediate	-