Erick TORNERO

PERSONAL DATA

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WORK EXPERIENCE

JUL 2024 DEC 2020	**SPLINE INC, USA-Remote** *Machine Learning Engineer* I have been working as an ML Engineer for over three years, where I have been involved in diverse projects including Diffusion, NLP, and 3D Generative models.
Dec 2017 MAY 2017	**LIMABIONICS SAC, Lima-Peru** *Software and Hardware Engineer* 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** *Software and Hardware Engineer* Development of material for classes in robotics (implementations, coding examples), using technologies as *AppInventor, Scratch, Arduino, MBlocks, Unity3D*.
MAR 2017 JAN 2017	*INICTEL-UNI, "Recreational Summer 2017"*, Lima-Peru *Partial-time teacher in Virtual Reality* Development of the class program and teaching Virtual Reality based on Google-VR SDK and Unity3D to children and teenagers.

RESEARCH EXPERIENCES:

MAR 2020 MAR 2019	**RESEARCH INTERN, Arequipa-Peru** *Universidad Católica San Pablo (UCSP)* 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** *Topic: Introduction to Deep Reinforcement Learning*
DEC 2019	**ORAL SPEAKER AND POSTER PRESENTATION AT LATINX AI WORKSHOP IN NEURIPS2019, Vancouver-Canada** *Topic: Reinforcement Learning Approach to Fly Quadcopters with a Faulted Rotor*

EDUCATION

AUG 2020	Deep Learning Reinforcement Learning Summer School **Canadian Institute For Advanced Research (CIFAR)** , Remote assistance.
MAR 2020 MAY 2018	Master of Science in COMPUTER SCIENCE, **Universidad Católica San Pablo**, Arequipa **Thesis in Progress**: "Reinforcement Learning Approach to Fly Quadcopters with a Faulted Rotor"	Advisor: PhD. Jose E. OCHOA
JULY 2017 APR 2012	Bachelor Degree in MECHATRONICS ENGINEERING **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
Computer Vision	Diffusion Models, Nerf, 3D Reconstruction
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
Python3	Advanced	Pytorch
C++	Intermediate	OpenGL QT
C	Intermediate	STM32 HAL Driver
CUDA	Intermediate	-
JS/TS	Intermediate	TensorflowJS React
C#	Basic	GoogleVR/Unity3D
Latex	Intermediate	-