Erick TORNERO

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Callao, Perú	19 April 1993
ADDRESS:	AAHH Japon, Mz "M", LT "5", VMT, Lima–Perú
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WORK EXPERIENCE

Dec 2017 – MAY 2017
LIMABIONICS SAC, Lima-Peru
Software and Hardware Developer

Develop Software corresponding to State Machine of a Hand-Bionic Prosthetic prototype using ST microcontrollers. Testing and debugging of electronic boards oriented to tasks of conditioning and acquisition of myoelectric signals.

APR 2017 – DEC 2016
MECHATRONIC ENGINEERING ENGITRONIC SAC, Lima-Peru
Software and Hardware Developer

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.

PROJECTS

Prosthetic-Bionic 2017: Development of a prototype bionic prosthesis, a project done as part of my work in *LIMABIONICS SAC*, which was implemented through 3D printing and ST controllers.

Wayra-UNI 2016–2018: **Automated Aeroponics System**
An Aeroponic prototype, instrumented with sensors and pumps to grow plants with the automatic pulverization of a nutritious solution. The entire system was controlled with an Arduino UNO. This project was presented in Proyecta-UNI and BMC-UNI 2017 contests.

EDUCATION

CURRENT – MAY 2018
Master of Science in COMPUTER SCIENCE, **San Pablo Catholic University**, Arequipa
Thesis in Progress: "Overcomming Inestabilities of Quadrotors when loss a propeller using Reinforcement Learning Framework" | Advisor: PhD. Jose E. OCHOA

JULY 2017
Bachelor Degree in MECHATRONICS ENGINEERING
National University of Engineering, Lima-Peru

CERTIFICATES

DEC. 2017
"Business Model Competition UNI (BMC)*",* Fourth Position.
Automated Aeroponics System.

Languages

Spanish: Mothertongue
English: Medium

Computer Skills

Operative Systems   Linux, Windows
Version Controller   Git
Ms Office   Excel, PowerPoint, Word
Microcontrollers   ARM Cortex, Arduino, PIC18

Programming Languages

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

Interests

I am Interested in Deep Learning Research, I am especially enthusiastic about the development of new algorithms in the Reinforcement Learning Framework. Currently, I am working with this kind of algorithms as part of my Master Thesis at San Pablo Catholic University.