

Nestor David Mejía Almeida

CURRICULUM VITAE



WORK EXPERIENCE

OCT 2015 - Nov 2023

University of the Armed Forces ESPE a Quito-Ecuador
Researcher and Professor

Full-time professor and researcher in the Civil Engineering career at Army University. Responsible for conducting various research projects such as Experimental and Computational Modelling of the Blast Loading in the Concrete Specimen, Lahar Flow Simulation by Augmented Reality, and Engineering Mechanics Statics and Structural Analysis courses.

JUNE 2012 - FEB 2015

Engineer Consulting, Beijing-China
Technology Exchange

He provided the technology exchange between America and Asia through supporting engineering to validate the quality of technology, equipment maintenance, equipment installation, and equipment configuration, set up the best performance, and negotiated price and contract conditions.

JULY 2010- AUG 2013

Researcher Jiaotong University, Beijing
Aerodynamic Study of a High Speed Train

Provided a study in detail of the aerodynamic behavior of a high-speed train so that we could establish the level of influence of the physical variables that affect the stability of the system, supporting with simulations CFD or numeric analysis, and additionally validating the accuracy of the mathematical models and physical models which are used to describe the turbulence phenomenon in the simulations by CFD.

SCIENTIFIC ARTICLES

Nestor Mejía, Ricardo Peralta, Rodrigo Tapia, Ricardo Durán, Andrés Sarango, Damage assessment of RC columns under the combined effects of contact explosion and axial loads by experimental and numerical investigations, Engineering Structures, Volume 254, 2022, 113776, ISSN 0141-0296, <https://doi.org/10.1016/j.engstruct.2021.113776>.

PATENTS

Innovation patent, SENADI-2021-88040, Test specimen destructive apparatus and test method.

Industrial patent, SENADI-2021-88034, Industrial design of a compression destructive testing machine for reinforced concrete columns under blast loads.

🏠 Turin - Italy
☎ +39 329 5519345
✉ nestor.mejiaalmeida@polito.it

EDUCATION

2023 – Current **Phd**
PHD STUDENT IN CIVIL AND ENVIRONMENTAL ENGINEERING
Polytechnic of Torino
Turin - Ital

2010 – 2013 **Master of Science in Engineering**
FLUID MECHANICS
Beijing Jiaotong University

2002 – 2008 **Undergraduate**
MECHANICAL ENGINEERING
National Polytechnic School
Quito-Ecuador

COURSES

2020 GRASSHOPPER
2019 MICROSOFT PROJECT
2019 TEACHING METHOD
2018 STRUCTURAL ENGINEERING
2018 FINITE ELEMENTS LSDYNA

COMPUTER SKILLS

Advanced Knowledge ANSYS, FLUENT, AUTODYN, L^AT_EX, Inventor, Auto-Cad, Matlab, Solid-Works, Grasshopper, Microsoft Windows,

COMMUNICATION SKILLS

SPANISH	Native	
ENGLISH	Fluent	
CHINESE	Proficient	Beijing Jiaotong University Aug 2009- Feb 2011
KOREAN	Proficient	Chonnam National University Aug 2013- Feb 2015
FRENCH	Conversational	