



Julio Cesar  
Ramirez Paredes

#### Profile

Bachelor of civil engineering, expert in engineering solutions for fluid mechanics and computational fluid dynamics in challenging problems. Interest in fluid mechanics and programming languages. Outstanding learning capacity, motivation to continue learning and orientation to achieve results in my career.

#### Social Network

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[Resume](#)

#### Languages

English   
Portuguese

#### Programming

C++   
Fortran   
Python

## EDUCATION

- Pontificia Universidad Católica del Perú** San Miguel, PE  
*Bachelor's Degree in Civil Engineering* Jul 2019

## WORK EXPERIENCE

- Hidro Mayu** Lambayeque, PE  
*Structural equipment installation assistant* Mar 2023
  - Mechanics of materials and structural analysis:** Training to teachers about the equipment of the Universidad Nacional Pedro Ruiz Gallo's structural engineering laboratory
- Hidro Mayu** Huacho, PE  
*Hydraulic equipment maintenance support* Nov 2022
  - Fluid mechanics and open channel hydraulics:** Maintenance and training to teachers and students about the equipment of the Universidad Nacional José Faustino Sánchez Carrión's hydraulics laboratory
- Centro de Investigación y Tecnología del Agua** Barranco, PE  
*Research Assistant* Sep 2019 - Nov 2021
  - Urban air quality:** Numerical simulation of the Navier equations for incompressible Newtonian flow in air fluid in urban environments using Openfoam.
  - Dam break:** Numerical modeling of the shallow water equation for incompressible Newtonian flow in dam break scenarios using Telemac-2D.
- Universidad de Ingeniería y Tecnología** Barranco, PE  
*Teaching Assistant* Aug 2019 - Nov 2021
  - Mathematics III:** Solid understanding of linear algebra and numerical methods.
- Pontificia Universidad Católica del Perú** San Miguel, PE  
*Jefe de Práctica* Mar 2019 - Jul 2020
  - Open Channel Hydraulics:** Solid understanding of channel morphology, hydraulic engineering and sediment transport.
- MJ & Asociados Water Resources Consulting** Lima, PE  
*Practicing civil engineer* Mar 2019 - Jun 2019
  - River flood:** Observation of flood zone in the Moquegua river under extreme flood condition to investigate the resilience of the infrastructure.

## COURSES

- Master python for data science - inLearning 2021
- Programming CFD OpenFOAM- CFD Direct 2021
- Fire modelling with OpenFOAM- OpenFOAM 2020
- OpenFOAM turbulence - CFD Support 2019
- OpenFOAM advanced - CFD Support 2019
- Open source hydraulics modelling of shallow water flow - Universidad Nacional de Ingeniería National Hydraulics Laboratory 2018
- Autocad 2018 advanced - Centro de Cómputo UNIMASTER 2018

## SOFTWARE SKILLS

- Programming Languages:** C++, Fortran, Python, R, Javascript, Bash y Lisp.
- Softwares:** Hecras, Telemac, OpenFOAM, Qgis, Arcgis, Emacs, Pointwise, Tecplot, Blender, Autocad, Latex, Ubuntu, Git y Aws.
- Typing:** Typing speed of 65 wpm - [Monkeytype](#), [Keybr](#).