

DANIEL ALVARADO PELÁEZ


MECHATRONIC ENGINEER


UPDATED: 28/03/2023


PERSONAL PROFILE


Mechatronic Engineer with skills in 3D design, web and application programming, data science and analysis, and embedded systems development. Skilled in work and autonomous learning, predisposed to work in multidisciplinary teams to share, improve or learn various knowledge.


PERSONAL INFORMATION


 Daniel Andrés
Alvarado Peláez


 Ecuador - Guayaquil


 24/03/1999

 daap21.3@gmail.com

 +593 93 959 1478

 [/Daniel-Alvarado-Peláez](#)

 [/daap213](#)

 [daap213.github.io/](#)
[MiPortafolio/](#)

PERSONAL SKILLS

Teamwork

Commitment in tasks

Learning capacity

Analysis capacity

Orientation to results

TECHNICAL SKILLS

Office package

Git

MySQL

JAVA Programming

python programming

C/C++ Programming

HTML programming

3d design

PROFESSIONAL EXPERIENCE

Designer/Programmer of drone with thermal module

ESPOL - Thesis
Guayaquil - Ecuador
OCT 2022 - FEB 2023

- Design of a chassis and system for a low-cost, medium-sized remote-controlled drone.
- Design of an embedded system for monitoring power cables in industry.
- With a Raspberry Pi 4, an HD camera and a thermal camera module, a .py program was created, using a model trained for recognition, detects if there are cables present and if a certain configured temperature is exceeded in the area, to save and share said information to a Telegram Bot.

Research Assistant (Development Technician)

Centro de Tecnologías de Información (CTI),
Guayaquil - Ecuador
MAR 2022 - APR 2022

- Development of prediction models for the energy consumption of the infrastructure of a Data Center, developing Jupyter notebooks for pre-processing, data processing, execution of the different models, and display and comparison of the results.
- Review and improvement of the application to obtain data from the equipment.

Renewable Energy Rice Piller Designer

Community practices, Guayaquil - Ecuador
MAY 2021 - SEP 2021

- For an agricultural community, the feasibility of manufacturing a rice mill powered by renewable energy was analyzed. Existing rice mills were investigated, in addition to the use of renewable energy. Subsequently, a design and dimensioning was carried out according to the needs of the community.

TECHNOLOGICAL TOOLS

Autodesk Inventor
Autodesk AutoCAD
Automation Studio
CAdE Simu
CCW (Connected Components Workbench)
FluidSIM
Framework Laravel
MATLAB & Simulink
LabVIEW
TIA Portal
Proteus
FlexSim
Laragon
XAMPP
HeidiSQL

HARDWARE TOOLS

Arduino
Raspberry Pi
ESP32 - 8266
PLC Siemens
PLC Logo

LANGUAGES

Native Spanish
Advanced English

Web programmer

Edu4lab, Durán - Ecuador
MAY 2021 - JUL 2021

- Design with the Laravel framework, an educational web platform was developed, with the functionalities of creating, profiles and roles, and online tests, associated with books, courses and managers.

SCIENTIFIC PUBLICATIONS

Available in: [Link](#)

R. Estrada, V. Asanza, D. Torres, I. Valeriano and D. Alvarado, "Comparison of Traditional ML Algorithms for Energy Consumption Prediction Models," 2022 IEEE Future Networks World Forum (FNWF), Montreal, QC, Canada, 2022, pp. 232-237, doi: 10.1109/FNWF55208.2022.00048.

EDUCATION

Superior Education, Mechatronics Engineering

Escuela Superior Politécnica del Litoral,
Guayaquil- Ecuador / OCT 2017- FEB 2023

Primary - Secondary education

Unidad Educativa FAE N°2,
Guayaquil- Ecuador / MAY 2005- FEB 2017

CERTIFICATIONS

Despliegue de MySQL con Docker

MAR 2023

Python para data scientist avanzado

FEB 2023

Docker esencial

FEB 2023

Learning Docker

FEB 2023

OPENedX Escritura Académica

JAN 2023

Examen CAMBRIDGE ENGLISH PLACEMENT TEST, C1

DEC 2022

Cuarta revolución Industrial: Data science

FEB 2022

Aprende Excel (Office365/Microsoft365)

FEB 2022

Cómo eliminar las distracciones

FEB 2022

Cómo conciliar las funciones múltiples del líder

FEB 2022

Introducción a la programación en Python

APR 2021

Fundamentos de programación en PLC

SEP 2021

Python para data science y big data esencial

SEP 2021

MATLAB Onramp

OCT 2020

Certificate of Competency in English, ECCE B2

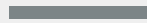
MAY 2017

Certificado de graduación, CEN

NOV 2017

[Link to certificates](#)

R E F E R E N C E S



Darwin León

Edu4lat Manager

+593 98 480 5355

Ph.D. Víctor Manuel Asanza

Professor of the faculty of FIEC - ESPOL

+593 98 265 9680

Mgs. Alexandra Pérez Rivera

Teacher of the Tourism Career,

ECOTEC University

+593 99 457 8095