Nicolás A. Ortega Froysa

Seville, Spain

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Skills

Programming C, C++, x86 Assembly, Rust, Bash, Java, PHP, Oracle PL/SQL, FTFX

Tools Linux, CMake, Docker, DOxygen, SQLite, MariaDB, GitLab CI, SSH, NGinx, Vim

APIs OpenMP, OpenGL 2.0/3.0+, C++ STL, OpenAL, NCurses, Qt

Languages Native: English (C2), Spanish · Novice: Portuguese, Esperanto

Experience _____

DMUX Remote

DEVELOPER - CO-PROJECT LEADER

Sep. 2015 - Nov. 2016 • Development of a 3D, derby-style, shooter game written in modern C++.

- · Collaboration with various other developers in large-scale project using Git version control tool.
- Configuring the CMake build system for the project, linking to dependency libraries.
- Had to adapt to a constantly changing development environment.
- Asynchronous communication with teammates in different timezones.

Servicio de Asistencia Religiosa de la Universidad de Sevilla

Seville, Spain

Sep. 2019 - PRESENT

WEBSITE ADMINISTRATOR

- · Managing the Drupal instance.
- · Updating the website's content.
- · Creating fillable PDF forms.
- Serving as general technical support for the university chaplain.
- Leading group activities (e.g. Bible studies).

Education

CEU San Pablo Andalucía

Bormujos, Spain

2021 - Est. 2023

DEGREE IN ADMINISTRATION OF COMPUTER NETWORKS

- Exercises in Linux system administration.
- Configuration of complex virtual networks using Cisco Packet Tracer[™].
- Setting up Docker instances of web services.
- Management of Oracle databases and programming with Oracle PL/SQL.

International Baccalaureate Diploma Programme

Minnesota, USA

2015

IB DIPLOMA GRADUATE

- Higher level exams in English, Spanish, and Economics.
- Standard level exams in Physics, Visual Arts, and Calculus.
- Final paper on The Free Software Movement and Intellectual Property.

Projects_

Colonel

A small personal kernel project written in C and Assembly. Compatible with x86 architectures, bootable with GNU GRUB, and built using the GCC cross-compilation tool-chain and the CMake build system.

Indivisible

A highly optimized prime number generator with O(n) time complexity for nth prime generation, and $O(\sqrt{n})$ for prime testing. Written originally in C using OpenMP, then later ported to Rust.

SAUS

Scripted AUdio Software is a very flexible command-line tool for real-time scripted audio filtering via JACK audio inputs. The C program passes input frequencies through a user-defined script written in Python.