Pablo Aguirre | Curriculum Vitae

Acuña de Figueroa 1471, Ciudad Autónoma de Buenos Aires

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Telecommunications engineer. Passionate about problem resolution, wireless communications and software developing with technical and interpersonal skills which are useful for teamworking and project completion.

Previous Employment

GENROD   **Buenos Aires**
IoT Solutions Developer   *March 2020–April 2022*

Developer of IoT solutions, this involved coding embedded systems, communications protocol design, antenna design and general web developing. Design of sensor systems for industry applications. Leader of small developing team.

INVAP   **San Carlos de Bariloche**
Machine Learning Engineer   *August 2018–December 2019*

Responsible of coding company's first crop classification product in Python that uses satellite (optical and SAR) imagery. This involved studying the mathematical basis of the algorithms, and testing them under different scenarios. Also made an evaluation of an existing no-SQL database and made changes implementing features engineering. Responsible for updating related software and assuring compatibility.

Education

Laboratorio de Sistemas Embebidos, FIUBA   **CABA**
Embedded Systems Specialization.   *2021–*

Universidad Nacional de Cuyo, Instituto Balseiro   **Río Negro**
BE in Telecommunications Engineering.   *2016–2019*

Universidad Nacional de Tucumán, Facultad de Ciencias Exactas de Tucumán   **Tucumán**
Studied first two years of the Electronics Engineering career.   *2014–2016*

Technical and personal skills

○ **Languages:** Spanish: Native. English: Advanced. French: Basic. German: Basic.

○ **Programming languages:** Proficiency in: C, C++, Python, Matlab, VHDL, SQL, JavaScript.

○ **Development background:** Experience developing RESTful APIs (Flask with SQLAlchemy and marshmallow), MQTT clients, web scraping and communications protocols. Unit testing and automated testings in Python and C. Experience using Docker and GitLab. Strong background in Linux usage. Django framework.

○ **Database Handling:** Experience working with MySQL, PostgreSQL, SQLite and MongoDB, NoSQL databases. Experience working with ORM.

○ **Industrial software skills:** Matlab, Advanced Design System (ADS), LTspice, QGIS.

○ **Telecommunications related skills:** Digital and analogical signal processing, error correction coding, link simulations, digital image processing.

- **Embedded systems skills:** Experience working with FPGA equipment: hardware debugging, creation of IP modules, testbench, simulation and general solutions design (Xilinx's Vivado Design Suite used to program an Arty Z7). uC and FPGA hibrid solutions programming.

- **Data science related skills:** Strong analytical and statistical background, data handling and visualization, machine learning, data mining, ETL, Tableau, experience in acquisition and visualization of laboratory data.

- **Soft skills:** Patience, flexibility, leadership, conflict resolution, teamwork good communicator.

Interests and extra-curricular activity

- Completed Specialization: Deep Learning by DeepLearning.AI on Coursera. Certificate earned at April 20, 2019.
- Completed Scpecialization: Django for Everybody by University of Michigan on Coursera. Certificate earned at April 19, 2022.