Hector David Aguirre Arista

👤 Personal Information

Place and date of birth:	Cajamarca - Peru | 22th March 1996
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📑 Profile

Mechatronics Engineering graduate at the Pontifical Catholic University of Peru. Interested in topics related to Machine Learning, Data Science, Internet of Things, 3D Design and Automation. Speaks Spanish (mother tongue), English and German. Also with knowledge about programming languages (C, C++, C#, Python and Dart), Business Analytics Software (Power BI) and CAD Software (Inventor, Fusion 360, AutoCAD and Eagle). Fond of photography, reading and sports.

🎓 Studies

Mar 2013 - Dic 2018	**PONTIFICAL CATHOLIC UNIVERSITY OF PERU** Mechatronics Engineering Graduated in the top tenth of the students
Oct 2017 - Mar 2018	**UNIVERSITÄT DUISBURG-ESSEN** *Elektrotechnik und Informationstechnik* Exchange Program (Germany)

👤☰ Skills

- **Leadership:**
  I was **student representative** on the General Sciences Faculty Council of the PUCP, where I carried on projects, which led to the improvement of the Faculty in its curriculum and infrastructure.

- **Proactividad:**
  I was part of the **Student Project Management Section** (SEDIPRO in Spanish). In which I carried on several projects to promote good practices in project management.

- **Responsibility:**
  I graduated from the PUCP in the 7th place.

- **Communication:**
  I worked as Professor's Assistant for a year in the lecture of *Simulation Tools*. A lecture of the Mechatronics Engineering program where it is taught to model 3D solids using Inventor and also to build dynamic simulations and Finite Element Analysis of several machines or structures.

☝ LANGUAGES

SPANISH: Mother tongue

ENGLISH: Advanced
IDIOMAS CATÓLICA

GERMAN: B2/1 level completed
GOETHE INSTITUT, LIMA
6 months of exchange program in Germany

💼 PROFESSIONAL EXPERIENCE

Mar 2016 - Dic 2016	Professor's Assistant in the *Simulation Tools* lecture of the PONTIFICAL CATHOLIC UNIVERISTY OF PERU The simulation tools lecture aims to teach Mechatronic Engineering students to model 3D objects in software as Inventor an Ansys and to build dynamic simulations and apply Finite Elements Analysis to several machines and structures.
Jan 2017 - Jul 2017	Trainee *Programer* in NOVATRONIC Novatronic is a company specialized in software development and transactional solutions. Working there, I had the chance to participate actively in several software development projects. I developed programs using C, C# and SQL. Moreover, I took part also in the management of these projects, where I was responsible for carried them on correctly.
Apr 2018 - Dic 2018	Trainee in the Experimental Economics Laboratory PONTIFICAL CATHOLIC UNIVERISTY OF PERU The Experimental Economics Laboratory (LEEX in Spanish) carried on experiments on research related to decision making. These experiments were conducted on a computer by diverse people in the form of a game. They were programmed using python. Working here I acquired experience using python and in the management of web pages and servers using Amazon Web Services (AWS).
Feb 2019 - Jul 2019	Trainee Supplier Development Engineer *American Glass Products* AGP is a company that produces and designs laminated glass for the main automotive companies of the world, such as Tesla, McLaren, Volkswagen and BMW. Here I had the responsibility to manage and develop the suppliers that the company has. In order to achieve that, I learned about the Automotive Core Tools (Quality Management tools for the Automotive industry) and about Business Intelligence using Power BI. Moreover, I also developed apps using Power Apps and Flow (Microsoft services) that automated certain processes within the company..
Dic 2019 - to this time	Backend Developer *Simple Peru* Simple Peru is a company that builds tailored techonological solutions (Web applications, Rest APIs, mobile apps and IoT proyects). While working here I have developed several REST APIs using *python, Flask and PostgreSQL* and also a mobile app for Android and iOS using *Flutter*. I have also help with the deploy of this projects by using *Docker*.

🖱 Software

PROGRAMING
LANGUAGES

- *Python:* Implementation of machine learning and Artificial Intelligence algorithms and REST APIs
- *C# :* Applications with GUI development .
- *C:* APIs development and embedded systems programming.
- *C++ :* Applications with GUI and APIs development.
- *Dart:* Apps development with *Flutter*.

CONOCIMIENTO EN
SOFTWARE

- *Word, Powerpoint y Excel:* Nivel Avanzado.
- *Inventor:* Advanced level. 3D objects and technical drawings design.
- *Fusion 360:* Advanced level. 3D objects and technical drawings design.
- *Eagle:* Intermediate level. Electronic boards design.
- *LaTeX:* Intermediate level.
- *ANSYS Workbench:* Intermediate level. Mechanic components simulation.
- *Linux based Systems:* Intermediate level.
- *SQL:* Intermediate level. Databases management.
- *Git:* Intermidiate. Used in sofware development projects.
- *Docker:* Basic. Containers managment and deploy to production and development environments.

📖 Courses

SELF ORGANISING
EMBEDDED SYSTEMS

Lecture from the Embedded Systems Master
UNIVERSITÄT DUISBURG-ESSEN (GERMANY)

INFORMATION
MINING

Lecture from the Applied Computing Master
UNIVERSITÄT DUISBURG-ESSEN (GERMANY)

🏅 Awards and Achievements

FIRST PLACE
Jun 2019

5th Hackathon organized by the *National Society of Mining, Oil and Energy* (Peru) and by the Entrepreneurial Development Center of the ESAN University

Solution Dtech: Distributed system for real-time air quality monitoring and early warnings for critical events.

🔗 https://perumin.com/perumin34/notas-de-prensa/estudiantes-de-la-pucp-crean-sistema-de-alerta-ante-accidentes-en-minas-subterraneas