



ALYSON VALERIA CASTIBLANCO CASTAÑEDA

PROFESSIONAL PROFILE

Mechatronics Engineer with automation and robotics technical studies with knowledge in mechanic design, pneumatic systems, graphic design, high and low power electronics, C, C++, Java, JavaScript, HTML, CSS, web projects development using MERN component and Python programming, Basic level Office and pedagogy in academic topics related with mathematics (algebra, trigonometry, calculus and differential equations), text redaction, and Technology and Innovation (researching, embedded systems use in a pedagogical and industrial way. Pragmatic, organized and creative person, with passion for learning with high engagement and focus with every project, with leadership, communication and teamwork skills.

PROFESSIONAL EXPERIENCE

02/2023-11/2023 – AVANCES EDUCATIVOS SANTO DOMINGO

- **ROLE:** Information, Communication and Technology professorship main teacher.
- **Activities:** Teaching to students in topics related with Office Suite (Excel, Word, PowerPoint) and programming in different languages (Scratch, mBlock, Python, HTML, CSS and JavaScript). Also, using STEAM methodology in platforms like CODE.ORG and robotics using ARDUINO UNO and its IDE, 3D design in TinkerCAD in English at 100%.

01/2022-11/2022 – CETINCOL S.A.S.

- **Role:** Robotics professorship main teacher
- **Activities:** Teaching to students in topics related with robotics (energy, mechanics, machines, electronic



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LANGUAGES

Spanish: Native Language

English: 80%- 85% (B2)

PROGRAMMING LANGUAGES

Python: 80%

Java: 80%

C++: 80%

JavaScript: 75%

FRAMEWORKS:

React: 75%

Vue: 70%

Express: 75%

DATA BASES:

SQLite: 70%

MongoDB: 75%

circuits assembling, animation and embedded boards programming like Arduino UNO and Halocode with mBlock and C++). The class is taught in English based in projects oriented to problems solving through TecPro system, certification is available.

12/2021-At present – INDEPENDENT FULLSTACK

APPLICATIONS DEVELOPER

- Role: Independent fullstack applications projects consultor
- Activities: Frontend/Backend Web applications development with tools like HTML, JavaScript and CSS, frameworks like React or Vue under MERN design (MongoDB, Express, React, Node.js). Also, projects that include Data Base use like SQLite, MongoDB, Java and Python are developed too.

02/2019-07/2021 – IDRD


- Role: Ciclovía Guard
- Activities: Mobility and people guiding, Ciclovía's human resources and scholar last year students leadership. Also, logistic material management, reports and meetings making and sports promotion are main tasks in this role.

02/2015-At present – INDEPENDENT ACADEMIC CONSULTOR

- Role: Independent academic projects consultor
- Activities: Consultor about academic projects related with an enormous amount of topics in formative and industrial fields, giving specific classes about specific topics or projects making. The main topics managed are: mathematics (algebra, trigonometry, calculus and differential equations), technology (embedded boards programming like Arduino UNO, Halocode, Raspberry PI and PIC Microcontrollers in C++, Java and Python), Innovation (researching focused in Technological innovation), and texts redaction (articles and essays redaction in IEEE and APA).

EDUCATION

- Bachelor in Mechatronics Engineering, Universidad ECCI, Bogotá
2015- 2022



Dissertation: Implementation of a Hardware in the Loop platform for teaching control over a low-cost embedded system.

Relevant Course: Industrial and multi-variable control, linear algebra, differential and integral calculus, multi-variable and vectorial calculus, differential equations, programming, embedded systems, mechanical design (mechanical, thermodynamic and electric physics), circuits analysis.


- **General Education Degree in Software development, Universidad Tecnológica de Pereira, Pereira**
2021
- **Associate Degree Automation and industrial robotics, Universidad ECCI, Bogotá**
2015-2018
- **High School Degree, Instituto Tenerife, Bogotá**
2009-2014

OTHER STUDIES

- **Special Course in AUTOCAD 2D, SENA, Bogotá**
2016
- **Asynchronous Course en POO: JAVA and C++, SENA, Bogotá**
2017
- **Special course in assertive and effective communication in work teams., SENA, Bogotá**
2017
- **Special course in customer service, SENA, Bogotá**
2021

REFERENCES

- **Brian Cárdenas- Role: Independent fullstack applications projects consultor**
Phone: +57 305 7630354

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- **Andrea Díaz Andrade- Coordination Assistant Cetincol S.A.S.**
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