



NYCHOL BAZURTO GÓMEZ

SYSTEM ENGINEER

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JOB EXPERIENCES

GRADUATE ASSISTANT

Jan 2015 – Present

UNIVERSIDAD DE LOS ANDES

I have to develop the [Cupi2](#) levels exercises, which serve to evaluate the different contents learned in APO1 and APO2 (Algorithmic and Object Oriented Programming). Also I collaborate in activities through the levels, creating templates and designed the test and exams for the students.

TECHNICAL ANALYST

Dec 2014 - Jan 2016

RITBOX LTDA

Analysis and implementation on a web platform, to optimize the processes of the microfinance area at Banco de Bogota: Database modeling and implementation in an Oracle engine. Develop in Java (Jdeveloper as IDE), using entities managers, dto and libraries, working with JSP framework, jasper Report and interface programming with Javascript and JQuery, all this over web logic server application. Design of white box and concept proofs.

STUDENT TEACHER ASSITANT

Feb 2013 – Dec 2014

UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS

Planning of classes, assistance to the students, help in a percentage of qualification, elaboration of workshops, joint assistance and monitoring, cooperation programming marathons.

JUNIOR TEACHER ASSISTANT – OBJECT-ORIENTED PROGRAMMING

Professor: John Fredy Parra (2013-1)

JUNIOR TEACHER ASSISTANT – COMPUTER SCIENCE I

Professor: Deicy Alvarado Nieto (2013-1)

JUNIOR TEACHER ASSISTANT – PROCEDURAL PROGRAMMING

Professor: John Fredy Parra (2013 – 2)

JUNIOR TEACHER ASSISTANT – ADVANCED PROGRAMMING

Professor: Jhon F. Herrera. (2013 – 2)

JUNIOR TEACHER ASSISTANT – OBJECT-ORIENTED PROGRAMMING

Professor: Fernando Martínez. (2014 – 1)

JUNIOR TEACHER ASSISTANT – PROCEDURAL PROGRAMMING

Professor: David Álvarez Plata (2014 – 1)

JUNIOR TEACHER ASSISTANT – OPERATING SYSTEM

Professor: Nancy Gelvez. (2014 – 1)

JUNIOR TEACHER ASSISTANT – OBJECT-ORIENTED PROGRAMMING

Professor: Fernando Martínez. (2014 – 2)

JUNIOR TEACHER ASSISTANT – PROCEDURAL PROGRAMMING

Professor: John Fredy Parra (2014 – 2)

 EDUCATION

MASTER
OF SYSTEM ENGINEER
AND COMPUTER
DEGREE
Jan 2016 - Ongoing

UNIVERSIDAD DE LOS ANDES

Profile: Visual Analytics, Intelligence Agents, NGN (Next generation networking) and KM (Knowledge Management).

BACHELOR
OF SYSTEM
ENGINEER DEGREE
Mar 2015

UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS

Profile: Artificial Intelligence, Computer Science, Software Engineering and teleinformatics.

HIGH SCHOOL
DEGREE
Dec 2007

COLEGIO SUPERIOR NORMAL DE PASCA

Profile: Pedagogy, emphasis on math.

 EDUCATIONAL
PROJECTS

PROJECT

PROPUESTA DE UN MODELO BASADO EN ENJAMBRE DE PARTÍCULAS

Senior thesis focusing on intelligence artificial area. Initial approximations were made using the following techniques:

Fuzzy model with optimization of genetics algorithms and the gradient method.

Model of neural networks.

ANFIS Model.

These models allowed identifying and corroborating the patterns and variables involved with the behavior of the pest in the Colombian context, detecting the adequacy of the implementation of a swarming intelligence technique. It was found the absence of a model of multiple swarms of particles (suitable to describe the behavior of the insect), finally implementing a model of multiple swarms of particles from a single swarm model, offering an innovative and social impact (Taking into account the effects of the drill on coffee production).

Finally, the model was executed on a virtualization structure, approaching different strategies in order to speed up the data collection.

The models were implemented on MATLAB and the virtualization structure using OVM.

This allowed the publication and elaboration of several products, some still in the process of correction.

- PAPER**
Sep 2016
SIMULATION OF THE COFFEE BERRY BORER EXPANSION IN COLOMBIAN CROPS USING A MODEL OF MULTIPLE SWARMS
Workshop on Engineering Applications (WEA). [Engineering Applications - International Congress on Engineering \(WEA\), 2016 Workshop on.](#)
- PAPER**
Nov 2015
PROPUESTA DE UN MODELO DE REDES NEURONALES PARA REPRESENTAR LA EXPANSIÓN DE LA BROCA EN LOS CAMPOS DE CAFÉ COLOMBIANOS (PAPER EN MEMORIAS DEL CONGRESO).
XI Congreso Internacional de Electrónica Control y Telecomunicaciones.
- PAPER**
Oct 2015
ANALYSIS OF VIRTUALIZATION IMPLEMENTATION FOR THE SIMULATION OF A MULTIPLE-PARTICLE-SWARMS MODEL FOR EXPANSION OF THE COFFEE BERRY BORER.
Workshop on Engineering Applications (WEA). [Engineering Applications - International Congress on Engineering \(WEA\), 2015 Workshop on](#), IEEE.
- PAPER**
2014
FUZZY MODEL PROPOSAL FOR THE COFFEE BERRY BORER EXPANSION AT COLOMBIAN COFFEE FIELDS
Publicado en Advances in Computational Biology, volúmen 232 de las series Advances in Intelligent Systems and Computing, Springer International Publishing, pp 247-252, 2014.
- PAPER**
2014
MODELO NEURO DIFUSO PARA REPRESENTAR LA EXPANSIÓN DE LA BROCA EN CAFETALES COLOMBIANOS
Revista Visión Electrónica, Vol. 8, núm. 2, pp. 137-143, 2014.
- PAPER**
2014
COMPRENSIÓN DE MEMORIA EN MAVERICKS OS: UNA MEJORA DE OSX
Revista ingECCI [Vol. 3, núm. 5, 2014.](#)
- PAPER**
May 2013
OPTIMIZACIÓN DE UN MODELO DIFUSO PARA EL MODELAMIENTO DE LA EXPANSIÓN DE LA BROCA (POSTER)
Presentado en EXPOPOSTER 2013 de la 5ta Semana de Ingeniería de Sistemas, Universidad Distrital Francisco José de Caldas.
- PAPER**
Nov 2013
PROPUESTA DE UN MODELO ANFIS PARA LA EXPANSIÓN DE LA BROCA EN LOS CAMPOS DE CAFÉ COLOMBIANOS (POSTER Y PAPER EN
IX Congreso Internacional de Electrónica, Control y Telecomunicaciones. Universidad Distrital Francisco José de Caldas.



AWARD
2016

UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS – GRADO DE HONOR FRANCISCO JOSÉ DE CALDAS

AWARD
2015

UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS – TRABAJO DE GRADO LAUREADO

AWARD
2014

MINISTERIO DE EDUCACIÓN NACIONAL

Best national score Saber Pro exam submitted in 2013.

AWARD
2013

PROPUESTA GANADORA 1ER LUGAR EXPOPOSTER – SEMANA INGENIERÍA DE SISTEMAS, UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS.

AWARD
2009 - 2014

UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS-MATRÍCULA DE HONOR.

.2009-III, 2010- I, 2011-III, 2012 –I , 2012-III, 2013-I, 2013-III, 2014-I

AWARD
2012

UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS-CUADRO DE HONOR.

2012 - I, 2012 - II.






AWARD
2007

NORMAL SUPERIOR DE PASCA- MEJOR BACHILLER




PRO SKILLS

PROGRAMMING LANGUAGES

- JAVA 
- C++ 
- JAVASCRIPT 
- PROLOG 
- PYTHON 




FRAMEWORKS

- JSF 
- PRIMEFACES 
- JQUERY 

LANGUAGES

- SPANISH 
- ENGLISH 

DATABASES

- ORACLE 
- MYSQL 
- ACCESS 



REFERENCES

**LEONIDAS
RODAS
JARAMILLO**

PROFESSOR

Universidad Minuto de Dios

304 4195615

**JOHN
FREDDY
PARRA PEÑA**

PROFESSOR

Universidad Distrital Francisco José De Caldas

3005338214

**LUZ MARINA
GÓMEZ**

SELF-EMPLOYEE

N/A

3208590677

