



# Oscar Giraldo Castillo

## *Mechatronics Engineering Graduate*

*"Education is the most powerful weapon which you can use to change the world"*

### Education

- 2008–2013 **Mechatronics Engineering**, *Universidad Nacional de Ingeniería - UNI*, Lima, Perú.  
Upper Third
- 2007–2008 **Mechatronics Engineering**, *Universidad Tecnológica del Perú*, Lima, Perú.
- 2006–2007 **High School**, *Dewey W. Hawking School*, Chimbote, Perú.
- 2002–2006 **High School**, *Antonio Raimondi School*, Chimbote, Perú.

### Skills

#### **Operating Systems.**

- Main OS: **GNU/Linux**
- Windows

#### **Programming Languages.**

- Main PL: **Python**
- Java / Android SDK
- C/C++/C#
- Basic
- JS

#### **Programming microcontrollers.**

- PL: ASM/C/Python
- Arduino
- Raspberry Pi
- BeagleBone
- uC PIC

#### **Electronic Design.**

- Proteus
- Eagle
- Circuit Maker
- Pspice

#### **Scientific software.**

- Matlab
- Labview
- Octave
- Maple
- Python: anaconda stack, ipython

Av. Brasil 805 Dpto. 401 – Jesús María, Lima, Perú

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### Text Processors, Editors, and More.

- $\LaTeX$
- Sublime Text
- gedit
- MS Office
- nano
- Main: **vim**

### Web Development, *FrontEnd*.

- html/css/js
- bower
- grunt/gulp
- jQuery

### Web Development, *BackEnd*.

- Databases: **MongoDB/PostgreSQL/MySql/SQLite**
- WebServers: **Nginx/Apache**
- Production Tools: **Celery/Redis/Supervisord**
- Provisioning: **Ansible**

### Web Development, *Python Frameworks*.

- Google App Engine/webapp2
- Main FW: **Django**
- Bottle
- CherryPy

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## Certifications

- 2014 **Introduction to Android**, *INICTEL UNI*, With Proficiency.
- 2014 **Arduino Day 2014**, *CTIC UNI*, Organized by dgnest.
- 2013 **Introduction to robotics and industrial applications - Exhibitor**, *XXIII CONEII*, Successful Workshop.
- 2013 **4th Startup Academy**, *Lima Valley*, Successfully Completed.
- 2013 **Certificate of Achievement**, *TOEFL ITP Test*, 540.
- 2013 **Introduction to Computer Science**, *UDACITY*, With Proficiency.
- 2012 **Web Development**, *UDACITY*, With Proficiency.
- 2012 **MongoDB for Developers**, *MongoDB University*, With Proficiency.

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## Experience

- 2013–2014+ **CEO/Founder**, *dgnest.com*, Lima, We provide advice and implementation of web/mobile hardware integration projects. Currently We are working in a startup to spread the open source hardware.
- 2014 **Project Manager**, *MECHATRONIC ENGINEERING ENGITRONIC S.A.C*, Lima, Programming Embedded Systems and electronics support.
- 2012–2013 **Research Intern**, *Centro de Tecnologías de Información y Comunicaciones - CTIC*, Lima.
- 2011 **Participation maintenance work on the Antamina mine**, *JAVFRANK*, Lima.

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## Volunteer Experience

- 2014 **pycamp**, *Women in Technology Perú*, Coach.
- 2014 **Hour of Code**, *python uni*, Coach.

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2013 **Aprendo Contigo**, *Hospital del Niño*, Volunteer.

2012 **INFOSOFT**, *Ubuntu Peru*, Volunteer.

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## Proyectos

2014+ **Allillanchu**.

Working together with the peruvian University Cayetano Heredia. We developed a mobile application and web platform dedicated to the study of mental health using the Patient Health Questionnaire-9 (PHQ-9)

November **Museando**, *OpenHack*, Hackspace, Lima.

2014 Mobile application for museums through interaction with RFID tags and NFC technology

November **Hospital**, Lima.

2014 Open source django project used to manage basic hospital assets

2013+ **dgnest.com**.

Implementation of web platform to share open source hardware projects

2013 **LIMA GUIDE**.

This app gives you a guide to emergency numbers such as hospitals, police stations, fire stations. Furthermore, You'll find phone numbers, addresses, websites, e-mails, etc. of some state public institutions of Perú such as ministries, ombudsmen, SUNAT, RENIEC, among others. Be sure to have this helpful app in your mobile

2013 **tasteBit**.

Tastebit is a delightful app which guides you through the best path that will make your palate happy. Tastebit makes you taste the best flavors of life. Taste it with tastebit

2013 **New Sense**.

Design and Implementation of an Interface that recognize Patterns of Arm Movement based on Sensing data of a Android Mobile Device

August 2012 **Ackerman Mobile Robot**.

Ackerman Mobile Robot Position Estimation Using the Extended Kalman Filter

September **Pisco Sour Vending Machine**.

2011 This project was made in order to promote the consumption of pisco sour and standarize it with the purpose of spreading the peruvian pisco abroad

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## Organizations

October 2013 **PYTHON UNI**.

Creation of community python UNI. We have organized several hours of code with freshmen

August 2010 **GISCIA - UNI**.

Former Vice President

2009 **CEDIM - UNI**.

Active Member

December **IEEE**.

2007 Member

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## Honors & Awards

Abril 2014 **Winner of a grant to attend PyCon 2014**, *Pycon*, Montreal 2014.

Grant valued at \$550

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- Agosto 2011 **4th Edition - Mechatronics National Olympics, FESTO, Lima, INTERCON**  
2011, 2nd Place.  
Pneumatic, electropneumatic and PLC tests
- 2008 **Academic Merit Diploma, Universidad Tecnológica del Perú.**
- 2006 **Honorable Mention - Scholarship from Universidad César Vallejo, Lima.**

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## Languages

Spanish **Mother tongue**

English **Full professional proficiency**

ICPNA

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