



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.

- L^AT_EX
- 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

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.

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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References

Work Done Ing. **José Oviden Martínez**, *MECHATRONIC ENGINEERING ENGITRONIC S.A.C CEO*, jose.oliden@gmail.com.
Cel: 011 51 986 651 608

Volunteer Experience

- 2014 **pycamp**, *Women in Technology Perú*, Coach.
- 2014 **Hour of Code**, *python uni*, Coach.
- 2013 **Aprendo Contigo**, *Hospital del Niño*, Volunteer.
- 2012 **INFOSOFT**, *Ubuntu Peru*, Volunteer.

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

Organizations

- October 2013 **PYTHON UNI**.
Creation of community python UNI. We have organized several hours of code with freshmen

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August 2010 **GISCIA - UNI.**
Former Vice President

2009 **CEDIM - UNI.**
Active Member

December **IEEE.**
2007 Member

Honors & Awards

Abril 2014 **Winner of a grant to attend PyCon 2014, Pycon, Montreal 2014.**
Grant valued at \$550

Agosto 2011 **4th Edition - Mechatronics National Olympics, FESTO, Lima, INTERCON**
2011, 2nd Place.
Pneumatic, electroneumatic and PLC tests

2008 **Academic Merit Diploma, Universidad Tecnológica del Perú.**

2006 **Honorable Mention - Scholarship from Universidad César Vallejo, Lima.**

Languages

Spanish **Mother tongue**

English **Full professional proficiency** ICPNA