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

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⌨ *dgnest.com/oskargicast* • *http://www.linkedin.com/in/oscargicast*

Text Processors, Editors, and More.

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

Web Development, *FrontEnd.*

- html/css/js
- grunt/gulp
- bower
- 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
- Bottle
- Main FW: **Django**
- 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

2013–2015+	**CEO/Founder**, *DGNEST SAC*, Lima, We provide advice and implementation of web/mobile hardware integration projects.
2015	**CTO**, *Crehana*, Lima, Online educational community for creatives people. Wayra winners of 2014. I was responsible for the technological development of the core platform.
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.

References

Work Done · **Ing. José Oliden Martinez**, *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

2014-2015 · **Outsourcing of Physical Inventory**.
Through my company, dgnest, we automate the inventory process using RFID mobile technologies in public institutions such as INICTEL and UNI.

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 2014 · **Museando**, *OpenHack*, Hackspace, Lima.
Mobile application for museums through interaction with RFID tags and NFC technology

November 2014 · **Hospital**, Lima.
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 2011 · **Pisco Sour Vending Machine**.
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

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

2009   **CEDIM** - **UNI**.
Active Member

December 2007   **IEEE**.
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*