

# Oscar O. Giraldo Castillo

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## *Undergraduate student*

Universidad Nacional de Ingeniería (UNI)

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21 years

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<http://robotstudio.wikidot.com/>

## *Permanent Address*

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## **EDUCATION**

*UNIVERSIDAD TECNOLÓGICA DEL PERÚ (UTP)*

Mechatronics Engineering (2007 - 2008)

*UNIVERSIDAD NACIONAL DE INGENIERÍA (UNI)*

Mechatronics Engineering – senior (2008 - Currently)

Upper 5th

## **RELEVANT COURSES**

Electrohydraulic and electropneumatic, Embedded Systems, Real Time Systems, Modern control theory, Numerical Methods, Material Resistance, Digital and Electronic Circuits, Multi-Body Dynamics, Robotic Control, Sensor Technology, Data communication and networks, Multivariable Calculus, Differential Equations, Complex Variable.

## **RESEARCH EXPERIENCE AND PROJECTS**

- Line follower (mobile robot)
- Autonomous sumo Robot
- Mobile robot control through remote station
- Design of a robotic arm (3 degrees of freedom)
- Position control of a pneumatic piston
- Pisco Sour vending machine
- Operating System (PIC OS)
- Simulation of a motion planning of an omnidirectional mobile robot

## **COMPUTER SKILLS**

- *Operating Systems:* Windows and UNIX.
- *Programming:* C/C++, BASIC, Visual C++, C#, Python, Java, ASM.
- *Microcontroller Programming:* MPLAB (ASM) and PICC (C++).
- *Electronic Design:* Proteus (ISIS and ARES), Eagle, Circuit Maker, Pspice.
- *Scientific Software:* MATLAB/Simulink, Labview, Maple.
- *CAD:* AutoCAD, SolidWorks.
- *Office Applications:* LaTeX, Microsoft Word, Excel, Power Point.
- *Web Development:* HTML, CCS, JS, GAE.

## **AWARDS**

- Second place in the fourth edition of the Academic Olympics of Mechatronics – FESTO (INTERCON 2011)
- Diploma of Academic Merit - Universidad Tecnológica del Perú
- Honorable decoration by Universidad Cesar Vallejo (UCV)
- Scholarship granted by UCV
- “DEWEY W. HAWKING” High school (Chimbote) – 1st. Place

## **ADDITIONAL INFORMATION**

- IEEE Member - RAS, 2007
- Capacitation ACM - ICPC, 2009
- CEDIM Member (Development and Research Center of Mechatronics)
- President of GISCIA: Artificial Intelligence and Control Systems Group (Research Group)
- Participation in EXPOFIM - UNI, 2009 (Technological Fair)
- Participation in maintenance work at the plant of Antamina (Expansion program) - JAVFRANK

## **LANGUAGES**

- *Spanish*: Mother Tongue.
- *English*: Advanced (ICPNA)

## **HOBBIES AND EXTRA'S**

- Volunteer of “Aprendo Contigo” program
- Volunteer of “Ubuntu Peru”, INFOSOFT 2012
- Drummer in Jazz Jaus (cultural association)