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# Raul R. Peralta Meza

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## ***Identifying***

921 Paseo de Oñate, Espanola, NM 87532

High Tech. Bldg. Of. 121

## ***Information***

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Email: rperalta@nnmc.edu

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## ***Education***

- **The University of New Mexico, Albuquerque (UNM), NM, USA**

MS in Computer Engineering

Research Topic: "Interference and Power Control in Ad-Hoc Wireless Networks"

Graduation Date: July, 2007

- **Pontifical Catholic University of Peru, Lima, Peru**

Master in Computer Science

Research Topic: "Emulator and Training Module for Microcontrollers MCS-48"

Ranking: 9 out of 525 (1.71%), total enrollment in the program from 1985 to 2005

Graduation Date: October, 2000

- **San Agustin National University, Arequipa, Peru**

BS in Electronic Engineering

Senior Design Project: "Tools for Microcontrollers MCS-48 Intel based on PC"

Ranking: 1 of out 61 (1.63%), Upper Fifth

Graduation Date: March 1993

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## ***Employment***

- 03/2012 – present: Northern New Mexico College (NNMC), Espanola, NM. Lecturer, Department of Engineering.

## ***Experience***

- Wrote part of the ABET-Self Study report, chapter 5 and 6, under the supervision of Dr. Ivan Lopez and Dr. Jorge Crichigno.
  - Taught EECE 132 Computer Networks I (Fall 2012), EECE 347 Wireless and mobile computing (Fall 2012) and IT 410 Information Assurance and Security (Fall 2012) courses.
  - Taught the "Friday Academy" sessions where the principles of engineering are presented to middle and high schools of Espanola to foster in them the idea of pursuing a degree in engineering.
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- Taught College Algebra – The Bridge program. This is a remedial class for students who need to improve their abilities in math.
  - 2008–2012: San Pablo Catholic University (PUCP), Arequipa, Peru. Lecturer/Instructor, Department of Engineering.
    - Administered and supervised the activities, as a head of the department, of the Telecommunications Engineering Program, semester II, 2010.
    - Advised, as a volunteer, the San Pablo Catholic team who participates in IEEE Computer Society Student Competition in 2010.
    - Taught Computer Architecture, Microprocessor, Computer Networks 1, and Digital Electronic.
      - Head of GITCom, Research Group (“Grupo de Investigacion en Telematica y Comunicaciones”).
  - 2005-2007: .The University of New Mexico (UNM), NM, USA. Project Assistant at Department of Electrical and Computer Engineering.
    - Supervised the student lab activities of ECE 238 – Computer Logic Design course.
  - 2001–2005, 2007- 2009: Santa Maria Catholic University of Arequipa (USCM), Peru. Lecturer/Instructor in the Academic Department of Engineering.
    - Created, as a volunteer, the Study Group of Microcontrollers, G-Micro.
    - Taught Artificial Intelligence, Expert Systems, Programming I and II (programming in C and C++), Digital Electronics II, Microcontrollers.
  - 1998–2000: Electrical Generation Company of Lima (EDEGEL), Lima, Peru. Senior Engineer.
    - Implemented the control system in “Huinco-Lima” dam to supervise the level of water in the breakwater.
    - Supervised and implemented the Y2K program that ensures the normal operation of the company.
    - Supervised the Y2K contingency plan that involved 30 engineers and 50 operators.
  - 1996–1997: National Supervisor of Tributary Administration (SUNAT), Ucayali, Peru. Professional Analyst.

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### ***Awards and Organizations***

- Recipient of Fulbright Scholarship, Peru. August, 2005 – July, 2007.
  - Recipient of Japanese International Cooperation Agency and Mexican Government (JICA) Scholarship. Fourth International Course of Mechatronic in
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Mexico City. September, 2003 – November, 2003.

- Advisor of the San Pablo Catholic University Peru Team (among the 12 finalists worldwide). IEEE - 2010 Computer Society Student Competition. More information available at: <http://www.computer.org/portal/web/competition>.
- IEEE, member.
- ASEE, member.
- Peruvian Professional Association of Engineers, member.

### ***Services and Interest***

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#### **Institutional Service at Northern New Mexico College:**

- Member of Budget Committee.
- Member of Honors Committee.
- Member of Undergraduate Curriculum Committee.

#### **Professional Service:**

- Program Evaluator at ICACIT (“Instituto de Calidad y Acreditacion de Programas de Computacion, Ingenieria y Tecnologia”). Member of Computing and Technology Accreditation Commissions. ICACIT signed the Washington Accord to be recognized as a pair of ABET in Peru. June. 2010- March. 2012
  - PE2 for evaluation visit at TECSUP 1 – Lima, Peru. ICACIT and ABET teams worked together to evaluate the program of “Network and Data Communication Technology” (General Criteria, Technology Accreditation Commission), November 14<sup>th</sup> - 16<sup>th</sup>, 2010. Duties include verify the information provided in the Self-Study Report, investigate issues identified during review of the Self-Study report, interview students, faculty members, administrators, and staff, review display materials, visit classrooms, labs, and other key facilities, determine compliance with the applicable ABET Criteria and policies, assist the program under review in recognizing its strong and weak points, share suggestions for improvements or exchange best practices and assist to an exit meeting to convey the team’s findings. This meeting was attended by the institution’s chief executive officer and administrators of the program.
  - PE1 for the one intermediate revision at CIBERTEC, Campus San Isidro, Lima, Peru. ICACIT evaluate the program of “Computación e Informática” (General Criteria, Computing Accreditation Commission). December 5<sup>th</sup> - 7<sup>th</sup>, 2011. To evaluate and verify the information and changes performed by the program to overcome weakness and concerns detected during the previous ICACIT evaluation visit. Duties include verify curriculum improvement, and interviews with the students, faculty members and administrators.

#### **Reviewer for:**

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- “Congreso Internacional de Computación y Telecomunicaciones”, (COMTEL 2009, COMTEL 2010, COMTEL 2011, COMTEL 2012), Lima, Peru, 2009-2012.
  - “IX Conference of Latin American and Caribbean Consortium of Engineering Institutions”, (LACCEI 2011), Medellín, Colombia, 2011.
  - “Segundo Congreso Nacional de Telecomunicaciones”, (IEEE CONATEL 2011), Students Papers, Arequipa, Peru, 2011.
  - “XVIII Congreso Internacional de Ingeniería Eléctrica, Electrónica y Sistemas”, (IEEE INTERCON 2011), Lima, Peru, 2011.

**Member of Executive Committee:**

- “Segundo Congreso Nacional de Telecomunicaciones,”(IEEE CONATEL 2011). Publication Chair. Arequipa, Peru, 2011.
- “XVI Congreso Internacional de Ingeniería Eléctrica, Electrónica y Sistemas”, (IEEE INTERCON 2009), Arequipa, Peru. Co-chair. Area of Telecommunications. Arequipa, Peru, 2009.

**Other Professional Services:**

- Co-founder of RIMET, “Red Panamericana de Investigacion e Innovacion Tecnologica en Mecatronica y Electronica” in 2008.
- Founder of the Study Group of Microcontrollers, G-Micro. Santa Maria Catholic University of Arequipa, the goal was the study and application of microcontrollers and spread this effort throughout the Electronic Engineering Program. We published a magazine "GMICRO" in 2002.
- Volunteer Technical Assistant of the admission process at San Agustin National University of Arequipa in 1988, 1989 and 1991 as a volunteer.

**Sports and hobbies:**

- Fronton, bicycling and reading.

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***Publications***

**Papers in journals:**

1. “Wireless Sensor Network Based on X-Bee and APTEEN Protocol”, Raul R. Peralta Meza and Daniel S. Del Carpio. “Tendencias” Journal, Year 3, Edition 3, pp. 56-61, 2009. ISSN 1390-3608.

**Papers in conferences:**

1. Francisco J. Guerra and Raul R. Peralta, “Diseño de una Plataforma de Seguridad Reconfigurable (PSR) sobre NetFPGA para Redes de Área Local”. Proceedings of 4th International Conference on Computer and Communications (COMTEL 2012), Lima, Peru. Oct. 24th–26th, 2012. ISBN
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2. "An Autonomous Robot Based on a Wheelchair", Raul Gonzales, Federico Gaona and Raul Peralta. Proceedings of 22<sup>nd</sup> International Conference on Electrical and Communications and Computer (CONIELECOMP 2012), Cholula, Puebla, Mexico. Feb. 27<sup>th</sup>–29<sup>th</sup>, 2012. ISBN 978-1-4577-1326-2.
3. "A CPU Simulator Based on FPGA Soft Processor", Raul R. Peralta Meza, Cesar A. Vera Bernal, Francisco J. Guerra Manchego and Paola T. Llerena Valdivia. Proceedings of 9<sup>th</sup> Latin American and Caribbean Conference for Engineering and Technology (LACCEI 2011). Medellin, Colombia. Aug. 3<sup>rd</sup>–5<sup>th</sup>, 2011. ISBN 0-9822896-4-2.
4. "Diseño de Driver de Video y Adaptación de Teclado para Aplicación de Sudoku Utilizando FLASHLITE186", Xuzel A. Villavicencio, Josselin K. Catalán y Raúl R. Peralta. Proceedings of XVII Congreso Internacional de Ingeniería Eléctrica, Electrónica y Sistemas (IEEE INTERCON 2010). Puno, Peru. Aug. 8<sup>th</sup>–12<sup>th</sup>. ISBN 978-612-45345-1-5.
5. "Diseño de una plataforma para monitorear y controlar el tráfico vehicular usando interfaces inalámbricas y GPRS", André R. Flores Manrique, Francisco J. Guerra Manchego y Raúl R. Peralta Meza. Proceedings of 4th Computer Colombian Congress (4CCC). Apr. 23<sup>rd</sup>–25<sup>th</sup>, 2009. ISBN- 978-958-8166-43-8.
6. "Red de Sensores Basado en IEEE 802.25.4 Aplicado a la Medicion de la Temperatura en un Campo Agrícola", Daniel S. Del Carpio and Raul R. Peralta Meza. Proceedings of 1<sup>st</sup> National Telecommunication Congress (CONATEL). Aug. 26<sup>th</sup>–29<sup>th</sup>, 2008. ISBN 978-9972- 2885-4-8.
7. "Una Aplicacion para el Aprendizaje de Sistemas Operativos", Raul R. Peralta Meza, Felix M. Kanazawa Makino, and Pedro A. Rodriguez Gonzales. Proceedings of 3rd Computer Colombian Congress (3CCC). Apr. 9<sup>th</sup>–11<sup>th</sup> 2008, ISBN- 978-958-8256-85-6.
8. "Interferencia y Control de Potencia en Redes Ad hoc", Raul R. Peralta Meza and Felix M. Kanazawa Makino. Proceedings of the 6th Peruvian Computer Week (JPC 2007). Nov. 5<sup>th</sup>–9<sup>th</sup> 2007. ISBN 978-603-45176-0-8.

**Books:**

1. "Memorias del Segundo Congreso Nacional de Telecomunicaciones, CONATEL 2011: Artículos Estudiantiles", Anibal R. Figueiras Vidal, Gonzalo M. Fernandez Del Carpio, Raul R. Peralta Meza and Patricia R. Castillo Aranibar. Publisher: Universidad Catolica San Pablo. ISBN: 978-9972-825-33-0. May 2011.

**Panels at conferences:**

- "Implementación de un Procesador de ruta de datos sencillo en VHDL", IX Exposicion Tecnológica y Científica (ETyC 2010), Asuncion, Paraguay. Nov. 2011,
  - "Emuladores", Electronic Engineering International Congress, Santa Maria
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Catholic University of Arequipa. Aug., 2001.

- "Redes de Computadoras y Transmision de Datos". "Jornadas Academicas", San Agustin National University of Arequipa. Jun., 1993
  - "Sistemas Expertos". "Seminario en Computacion", San Agustin National University of Arequipa. May, 1993
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## **Computer Skills**

- Programming languages: C/C++, Pascal, Prolog, Lisp, CLIPS, Visual Basic, and Labview.
  - Simulators: NS-2, v2.30, MatLab, ModelSim, and Simulink
  - Hardware Design: Digilent ChipKIT boards (Arduino), Microchip IDE, Microchip PIC 16XXX, Assembler for Intel X86 and Intel MCS-48, VHDL, Xilinx ISE, Spartan-3E, and JK Micro boards.
  - Databases: MySQL, SQL Server 7.0 and Informix
  - Operating Systems: Windows 7/XP/98/2000, Fedora and UNIX SCO V, and Novell Networks 3.11.
  - Office programs: Microsoft Office and Star Office.
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## **Languages**

- Native Spanish
  - English
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## **Professional Development**

### **Conferences (as attendee)**

- Facilitating Development Relationships for Success  
UNM, Mentoring Institute, Oct.24 -26, 2012. Albuquerque, NM, USA
- IT Security Summit New Mexico 2012: The Perfect Storm  
Santa Fe Community College, May. 3 , 2012. Santa Fe, NM, USA

### **Training (hands-on)**

- MySQL QuickStart Fundamentals. Oracle University, Self-Study Media Pack, Sep., 2012
  - MySQL for Beginners. Oracle University , Training on Demand, Sep. – Dec. 2012.
  - CCNA 1 – Foundations, CISCO Academy, Northern New Mexico College (NNMC), Espanola, USA, Jan. 2012
  - CCNA 3 – LAN Switching and Wireless, CISCO Academy, Northern New Mexico College (NNMC), Espanola, USA, Mar. 2012
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## **References**

Available upon request.