

CURRICULUM VITAE

PERSONAL INFORMATION

Name ANDRES, ORTEGA
Adresse Coronel Delgado y Panamericana Norte Cuenca, 010109, Ecuador
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E-Mail aorteaga@ups.edu.ec
Nationality Ecuatoriano
Date of birth 04/03/1987



PROFESSION

▷ Period 2012–Actuallity
○ Employer **Universidad Politecnica Salesiana**
12-69,Calle Vieja y Elia Liuth, Cuenca, Ecuador

▷ Department Telecommunications
○ Position Assistant Professor
○ Main responsibilities **Academic - Management Activities:**
Computers Networks I, II, III
Telecommunication Laboratory
Wireless Communications
Optical Communications
Probability and statistics
Neuronal Networks

EDUCATION

▷ Period 2014–2017
○ Acquired qualifications **PhD. Telecommunications**
○ Institute University of Ferrara - Italy
○ SENESCYT Register 3801120505

▷ Period 2010–2013
○ Acquired qualifications **Master in Telecommunications Management**
○ Institute Universidad Politecnica Salesiana - Ecuador
○ Grade 92/100
○ SENESCYT Register 1034-13-86034920

▷ Period 2005–2010
○ Acquired qualifications **Electronic Engineer**
○ Graduate school Universidad Politecnica Salesiana - Ecuador
○ Grade 92/100
○ SENESCYT Register 1034-10-1010143

- ▷ Period
- Acquired qualifications
- Graduate school
- SENESCYT Register

2005–2010

Technology

Universidad Politecnica Salesiana - Ecuador
1034-09-896341

RESEARCH

- ▷ Diploma thesis
- ▷ Best Paper Award

"Link Design and Resource Optimization for 5G Wireless & Optical Systems" — University of Ferrara, Italy

On the effects of pilot-aided channel estimation on the capacity of QoS-aware heterogeneous OFDMA networks – *IEEE 13th Malaysian International Conference on Communications (MICC 2017)*

- ▷ Projects
- Title

36 months

"Dimensioning, design and optimization of last networks generation, providing massive connectivity to heterogeneous infrastructures of communications in order to provide a comprehensive solution to SMART GRIDs in the 5G context." — Universidad Politecnica Salesiana

- Role

Director

- ▷ Projects
- Title

12 months

"Planing and optimization for last generation networks, in order to provide the support and infrastructure for SMART GRID communications oriented beyong 5G mobile communication and Optical Communications." — Universidad Politecnica Salesiana

- Role

Collaborator

PUBLICATIONS

- ▷ Antenna performance evaluation through the lobular radiation pattern
 - ▷ LDPC-DWDM processing for Optical communications using polymer fiber
 - ▷ Performance evaluation of GFDM over nonlinear channel
 - ▷ Combining LDPC codes, M-QAM modulations, and IFDMA multiple-access to achieve 5G requirements
 - ▷ Experimental Alamouti-STBC using LDPC codes for MIMO channels over SDR systems
 - ▷ Optimal Planning for Deployment of FiWi Networks based on Hybrid Heuristic Process
 - ▷ On the effects of pilot-aided channel estimation on the capacity of QoS-aware heterogeneous OFDMA networks
 - ▷ A joint multilevel modulator and robust LDPC codes Processing over Optical Systems by providing solutions for holistic 5G backhaul
- *IEEE 4th Asia-Pacific Conference on Antennas and Propagation (APCAP)*. – Bali-Indonesia, 2015
 - *IEEE Colombian Conference on Communications and Computing (COLCOM)*. – Cartagena-Colombia, 2016
 - *International Conference on Information and Communication Technology Convergence (ICTC)*. – Jeju - South Korea, 2016
 - *International Conference on Electronics, Communications and Computers (CONIELECOMP)*. – Puebla - Mexico, 2017
 - *IEEE 30th Canadian Conference on Electrical and Computer Engineering (CCECE)*. – Windsor - Canada, 2017
 - *IEEE Latin America Transactions, 2017*
 - *IEEE 13th Malaysian International Conference on Communications*. – Johor Bahru - Malaysia, 2017
 - *IEEE 13th Malaysian International Conference on Communications*. – Johor Bahru - Malaysia, 2017

TRAINING COURSES

- ▷ CCNA Exploration: Network Fundamentals • *Universidad Politecnica Salesiana, 2013*
- ▷ CCNA Exploration: Routing Protocols and Concepts • *Universidad Politecnica Salesiana, 2013*
- ▷ CCNA Routing and Switching: Escalamiento de Redes • *Universidad Politecnica Salesiana, 2014*
- ▷ MIKROTIK: Training MTCNA • *2014, 40hrs*
- ▷ Manejo de Sistemas de Informacion Geografica basico e intermedio con Software libre (QGIS) • *Marteau, 2013, 40hrs*
- ▷ Diseno de Infraestructura de Telecomunicaciones • *Universidad Politecnica Salesiana, 2013, 40hrs*
- ▷ Programacion Grafica: Labview Core I y Labview Core II • *Dataligths, 2014, 40hrs*
- ▷ Taller de Labview Vision Artificial, Sistemas Embebidos, Programacion de FPGA, Programacion de (USRP) • *Dataligths, 2015, 40hrs*
- ▷ ICS Designer, Software de Modelamiento de Redes inalambricas, Antenas, Enlaces de radio y microondas • *Complementos Electronicos, 2014, 40hrs*
- ▷ Curso de HEURISTICAS aplicadas a sistemas de telecomunicaciones. • *Universidad Politecnica Bolivariana, 2016, 36hrs*

ACADEMIC COURSES

- ▷ Probabilidad y Estadística • *Periodo 40, 41, 42, Electronic Engineering*
- ▷ Redes de Computadora I • *Periodo 40, 41, 42, 47, 48, Electronic Engineering*
- ▷ Redes de Computadora II • *Periodo 43, 44, 45, 46, 47, Electronic Engineering*
- ▷ Redes de Comunicaciones • *Periodo 45, 47, Electronic Engineering*
- ▷ Programacion I • *Periodo 42, Electronic Engineering*
- ▷ Informatica Industrial • *Periodo 44, 46, 47, Electronic Engineering*
- ▷ Electronica Analogica I • *Periodo 48, Electronic Engineering*
- ▷ Circuitos Electricos • *Periodo 48, Electronic Engineering*
- ▷ Calculo Integral • *Periodo 50, Automotive Mechanical Engineering*
- ▷ Fisica Aplicada • *Periodo 50, Automotive Mechanical Engineering*
- ▷ Comunicaciones I • *Periodo 52, Electrical Engineering*
- ▷ Sistemas Microprocesados I • *Periodo 52, Electrical Engineering*
- ▷ Metodos Numericos • *Periodo 52, Electrical Engineering*

JOBS

- ▷ Period
- Employer
- Employment
- Main responsibilities

2012 – Actuality

Universidad Politenica Salesiana, Cuenca/Ecuador

Assistant Professor

Chairs

Administrative hours

Research hours

LANGUAGES

FIRST LANGUAGE

Spanish

OTHER LANGUAGES

English – Read: 70, Write: 70, Talk: 60

Italian – Read: 90, Write: 70, Talk: 80

LANGUAGE TRAVELS

- ▷ Period
- Place
- Vendor
- Certificate

Feb 2015–May 2015

Ferrara/Italy

UNIFE

taliano B1

- ▷ Period
- Place
- Vendor
- Certificate

Feb 2016–May 2016

Ferrara/Italy

UNIFE

taliano B2

- ▷ Period
- Place
- Vendor
- Certificate

Mar 2017–Jul 2017

Cuenca/Ecuador

UPS

English B1

ABILITIES

SOCIAL SKILLS

Respect for the others

ORGANISATIONAL SKILLS

Teamwork, agile and precise

TECHNICAL SKILLS

Matlab Programming – Labview Core I, II – Arduino

HOBBIES

Sing, play to guitar, Running and Cooking