EDUARDO ROBINSON CALLE ORTIZ

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SUMMARY OF QUALIFICATIONS

- Thirteen years of experience as a Professor in the Department of Electrical and Electronic Engineering at Universidad Politecnica Salesiana from Ecuador.
- Research experience as a principal researcher and member on research teams.
- Eight years of experience leading programs, projects and departments.
- Excellent qualifications in strategic planning, teams building and project execution.
- Hard worker, quick learner, get along well with coworkers

EDUCATION

- **Universidad Técnica Particular de Loja, Ecuador.** September 2010- June 2011
  Diplomado Superior en Pedagogías Innovadoras (Advanced degree in Innovative Pedagogy)

- **Universidad Politécnica de Madrid, Spain.** September 2003 – October 2004
  Máster en Tecnologías de la información en Fabricación (Master in Information Technology in Fabrication)

- **Universidad Politécnica de Madrid, Spain.** September 2003 – October 2004
  Especialista en Robótica (Robotics Specialist)

- **Universidad Politécnica Salesiana, Ecuador.** September 1995 – June 2003
  Ingeniero Electrónico (Bachelor of Science in Electronic Engineering)

ACADEMIC EXPERIENCE

- **Visiting Scholar at University of California, Berkeley, United States.** May 2015 – November 2015
  I worked in human computer interactions, particularly in stress management and emotions. Specifically, we used light in order to create more pleasant public spaces.

- **Professor in the School of Engineering at Universidad Politécnica Salesiana, Cuenca, Ecuador.** March 2001 – Present.
  Courses: Industrial Robotics, Artificial Intelligence, Programming, Numerical methods.

- **Researcher in the School of Engineering at Universidad Politécnica Salesiana, Cuenca, Ecuador**. September 2005 – Present.
  I have worked in several research projects in robotics, smart grids, artificial intelligence and human-computer interaction.

- **Intern in the Instituto de Automática Industrial del Consejo Superior de Investigaciones Científicas –CSIC- (Industrial Automation Institute of the Higher Scientific Research Council.** October 2003 – November 2004.
  I worked in virtual sensors in mobile robots. Specifically, I developed a virtual force sensor for the SILO 6 robot using artificial neural networks.

PROFESIONAL EXPERIENCE

- **Technical Program Chair of IEEE Asia-Pacific Conference on Computer Aided System Engineering (APCASE) conference** (2014)**.** Universidad San Francisco de Quito

- **General Chair of Andean Region International Conference (ANDESCON), 2012 VI – IEEE.** (2012) Universidad Politécnica Salesiana

- **Representative of teachers to the High Council Universidad Politécnica Salesiana** (2013 – 2015). Representative elected by the teachers of the Universidad Politecnica Salesiana to be its representative on the University Council, the highest governing body of the institution.

- **Director of the Center for Research, Development and Innovation in Engineering. Universidad Politécnica Salesiana**. (2010-1015) My work focuses on promoting the development of scientific research at the University. Seven research groups were implemented. The result obtained indicate that the university should increase its scientific publications and up 4 positions in the research ranking in Ecuadorian universities by SCOPUS; being among the 15 universities of that publish the most.

- **Director of the Master's course in Industrial Control and Automation. Universidad Politécnica Salesiana.** (2010-2015) My work focuses on coordinating the academic and administrative activities of the program. The Masters course in Control and Industrial Automation is the program that generated more scientific publications. We have implemented two editions of the program.

- **Postgraduate Coordinator Universidad Politécnica Salesiana**. (2006 –2010). My work in centered in promoting the development of graduate programs. Eight new programs were established. Particular emphasis was given to programs in the area of science and technology

- **Consultant** (2006). Advisor for the formulation of the Project "CORPORATION FOR THE INNOVATION AND TECHNOLOGY TRANSFERENCE IN THE SECTOR MIPYMES OF AZUAY" for the Chamber of Small Industry Azuay (ICSC), with the participation of the la Universidad Politécnica Salesiana (UPS), the Center for Economic Conversion of Azuay (CREA) and the Ministry of Foreign Trade, Industrialization, Fisheries and Competitiveness (MICIP) in the frame of Global Small Business and Sectorial Development Programs at the Micro level.

- **Application Developer Consultant** (2000) Development of a system of Rubber Automatic Centering for an Ecuadorian Rubber Company based on computer vision algorithms.

PUBLICATIONS

- Paredes, P., Ko, R. Calle ,E.R, Canny, J., Hartmann, B., Niemeyer, G. (2016) Fiat-Lux. Interactive Urban Lights for Combining Positive Emotions and Efficiency. *Proceedings of the 2016 ACM Conference on Designing Interactive Systems,* 785-795. DOI: 10.1145/2901790.2901832
- Serpa,L. , Robles,V.E., Calle, E.R. , Gonzales,L.E. & Guevara,G.(2014). A proposal based on color descriptors and Local Binary Patterns Histogram as support tool in presumptive diagnosis of hiatus hernia. *2014 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC 2014)*,1-5. DOI:10.1109/ROPEC.2014.7036342
- Minchala-Avila,L.I. , Vargas-Martínez, A., Garza-Castañón,L.E. , MoralesMenendez,R. , Zhang, Y. & Calle-Ortiz,E.R. (2014). Fault-tolerant Control of a Master Generation Unit in an Islanded

Microgrid. *Proceedings of the 19th IFAC World Congress,*19,5327-5332. DOI: 10.3182/20140824-6-ZA-1003.01092

- Vargas-Martínez, A., Avila, L.I.M., Zhang, Y., Garza-Castañón, L.E., and Calle, E.R.C. (2013). Model-based Fault-tolerant Control to Guarantee the Performance of a Hybrid Wind-Diesel Power System in a Microgrid Configuration. *Procedia Computer Science*, 19, 712-719. DOI:10.1016/J.PROCS.2013.06.094
- Avila, L.I.M., Vargas-Martinez, A., Zhang, Y., Garza-Castañón, L.E., Ortiz, E.R.C & Viola, J.C. (2013). Model-based control approaches for optimal integration of a hybrid wind-diesel power system in a microgrid. *In SMARTGREENS 2013*,12-21. DOI:10.5220/0004359400120021
- Avila, L.I.M.; Castanon, L.E.G.; Ortiz, E.R.C. (2012). An Intelligent Control Approach for Designing a Low Voltage DC Breaker. *Procdings of the Andean Region International Conference (ANDESCON)*, 2012 VI, 163-166. IEEE DOI: 10.1109/ANDESCON.2012.45

ORAL PRESENTATION AND POSTER

- Minchala, L.I.; Garza, L.E.; Calle, E.R., "Inspection of the Geometry of Objects through Structured Light and Stereo Vision," Andean Region International Conference (ANDESCON), 2012 VI,210. DOI: 10.1109/ANDESCON.2012.59
- Minchala, L.I.; Calderon, J.A.; Garza, L.E.; Calle, E.R., Leak Detection and Location in Great Longitude Pipelines through Speed Propagation of the Negative Pressure Wave. Andean Region International Conference (ANDESCON), 2012 VI , 211. DOI: 10.1109/Andescon.2012.60

SCHOLARSHIPS AND AWARDS

- Fulbright Scholar (2016)
- Scholarship from the Foundation Center for Distance Education for Economic and Technological Development for the graduate course "Management of University Industry Relations". (2006).
- Scholarship from the Organization of Ibero-American States (OEI) for the course of Specialist in Social Studies of Science and Technology Innovation - Technological Innovation. (2005)
- Scholarship from Universidad Politécnica Salesiana for the Masters course in Information Technology for Manufacturing in the Polytechnic University of Madrid. (2003)

PROFESSIONAL AFFILIATIONS/ VOLUNTEER ACTIVITIES

- IEEE Member
- Secretary of IEEE Ecuador Section (2014-2015)
- Judge in IEEE student ethics competition 2014. Universidad de Cuenca (2014)
- Social work with indigenous children. (2008)
- Volunteer teacher for adult people. (2000)
- Universidad Politecnica Salesiana men's basketball team member (1995-1998)