

CURRICULUM VITAE

PERSONAL INFORMATION

Name **Miguel Angel Erazo Villegas**
Birthdate June 27, 1976, La Paz-Bolivia
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EDUCATION

- **Master of Science in Computer Engineering (GPA: 4.0)**, University of Puerto Rico in Mayagüez (UPRM), Thesis: “*An Energy-Efficient MAC Protocol for Wireless Sensor Networks for Wide Area Large Scale Environmental Monitoring*”, June 2006.
- **Bachelor of Electronics Engineering (Ingeniero) (GPA: 3.2, Best GPA of Electronics Engineering between 2000 students)**, Universidad Mayor de San Andrés (Major University of Saint Andrews, UMSA), Thesis: “*GSM Network for Nuevatel Enterprises in Oruro*”, April 2003.
- **Cisco Certified Network Associate (CCNA)**, Cisco Career Certifications, March 2004.

LANGUAGES

- English (CBT TOEFL: 267/300, IBT TOEFL:106/120) / Spanish

PROGRAMMING SKILLS

- C++, Java , Simulations in ns-2 in C++ and TCL, NesC/TinyOS

ACADEMIC HONORS

- 6 Academic honors for “Outstanding Student”, UMSA, La Paz, Bolivia, 1997-1999

RESEARCH INTEREST/ EXPERIENCE

- Routing and MAC protocols for sensor networks.
- Ad Hoc Networking.
- Research project: **Wide Area Large Scale Automation for Information Processing (WALSAIP)**, Electrical and Computer Engineering, University of Puerto Rico, 2005 – 2006, NSF Award num 0424546. I won the scholarship in UPRM by a Research Assistantship where I work in the networking group for WALSAIP project with Ph.D. Yi Qian and Ph.D. Seok Tang. This networking group is dedicated to develop a suitable sensor network MAC protocol for monitoring soil moisture in wetlands in tropical areas. I have worked in the design, simulation in ns-2 and currently implementing it in Mica2 and Mica2Dot motes.

WORK EXPERIENCE

- Management, Provisioning and Troubleshooting of a xDSL platform and development of a Graphical Management Platform for user’s service performance monitoring purposes, AES COMMUNICATIONS BOLIVIA S.A., La Paz, Bolivia, December 2000 – June 2004.
- Supervision and installation activities for NOKIA for installation of GSM equipment, NUEVATEL-PCS, La Paz, Bolivia, July 2000 – October 2000.
- Teacher assistant in: Calculus II and Digital Systems I, La Paz, Bolivia, UMSA, 1997-1999.

PUBLICATIONS

- ” SEA-MAC: Simple Energy Aware MAC Protocol for Wireless Sensor Networks for Environmental Monitoring”, paper accepted in IEEE 2007 2nd International Symposium on Wireless Pervasive Computing (ISWPC), San Juan, Puerto Rico, 2007.

- "An Energy-Efficient MAC Protocol for Wireless Sensor Networks for Wide Area Large Scale Environmental Monitoring", Fourth LACCEI International Latin American and Caribbean Conference for Engineering and Technology LACCEI'2006, Mayagüez, Puerto Rico, 2006.