

## Contact

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## Top Skills

Matlab  
AutoCAD  
Solidworks

## Languages

English  
Spanish

## Publications

Design and Functional Testing of a Next Generation Surface Piercing Propeller Test Stand

Open Water Tow Tank Testing of a Surface Piercing Propeller

A preliminary 3D model of a reservoir in Ecuador using an unconventional low-budget hydroacoustical system

# Luis Altamirano

Lecturer at Escuela Superior Politecnica del Litoral ESPOL

## Summary

Ocean engineer with experience in private and government sector.

Specialties: Research and Development, Ocean Engineering

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## Experience

Escuela Superior Politécnica del Litoral

University Lecturer

October 2015 - Present

Guayaquil

Teach, propose research projects and coordinate internship program at the Ocean Engineering department.

Secretaría Técnica del Mar

Technical Specialist

June 2013 - April 2015 (1 year 11 months)

Coordination of Ecuador's project for the extension of the submarine continental shelf according to the United Nations Convention on the Law of the Sea (UNCLOS) in order to define the external maritime boundary seawards, based on underwater bathymetric, geological and geophysical studies.

INOCAR

Oceanographic Researcher

August 2012 - May 2013 (10 months)

Ecuador

Initial development of an early warning system that determines risks of ocean origin to Ecuador's coastline by implementing a wave model simulating waves nearshore (SWAN) and a monitoring system which included directional wave buoys.

BlueView Technologies

Research Engineer

August 2010 - September 2011 (1 year 2 months)

- Successfully conducted dry dock tests in Aberdeen, Scotland demonstrating acceptable accuracy of sonar systems as required by underwater spool piece metrology customers.
- Conducted acceptance tests on sonar data acquisition interface which led to identifying many improvements in the software source code.
- Research, test and implementation of reference targets useful to conduct survey and measurements of large underwater areas using sonar systems.
- Project manager in the design of software that automatically calibrated sonar equipment.
- Authored reports and application documents used as standards for sonar data collection.

### Florida Atlantic University

#### Graduate Research Assistant

August 2008 - May 2010 (1 year 10 months)

Dania Beach, FL

- Designed components, fabricated and tested functionality of next-generation surface-piercing propeller test apparatus. Learned manual and CNC machining during fabrication process.
- Conducted in-water tests and image acquisition at the Stevens Institute of Technology, NJ.
- Designed algorithm that measured parameters on images of wake created by propeller.

### Hydroagoyan

#### Mechanical Engineer Assistant

July 2006 - August 2006 (2 months)

- Participated on a team of engineers and technicians from diverse backgrounds in the design and fabrication of oil pump components for the cooling system of turbines.

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## Education

### Florida Atlantic University

Master of Science - MS, Ocean Engineering · (2008 - 2010)

### St. Norbert College

Bachelor of Science - BS, Physics · (2004 - 2008)