

# Vinícius Nogueira

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## EDUCATION BACKGROUND

B.Sc. in Oceanography

Federal University of Santa Catarina  
2011 - 2014

B.Sc. in Computer Science (LOA)

Santa Catarina State University  
2006 - 2009

IT Technician

Technical School Professor Everardo Passos  
2003 - 2006

## KNOWLEDGE

Hydrographic Surveys

Geophysical Surveys

MBES Processing

USBL Positioning

Dimensional Control

Sensor Calibrations

Programming Languages

Oceanographic Instrumentation

## PROFESSIONAL SKILLS

Python

MathWorks Matlab

ESRI ArcGIS

QGIS

Global Mapper

Caris Hips & Sips

EIVA NaviEdit/NaviModel

Veripos Verify QC

Kongsberg Apos

Sonardyne Ranger

QPS Qinsy

Hypack

Linux (Basic)

Wave Modelling (Basic)

## LANGUAGES

Portuguese (Native)

English (Intermediate)

Spanish (Basic)



## ABOUT

Professional with 10 years of experience in geophysical surveys and physical oceanography with expertise in vessel mobilization, systems interface and data acquisition/processing. Extensive experience in bathymetric surveys using Single Beam Echo Sounder and Multi Beam Echo Sounder systems, hydrographic data processing, vessel dimensional control, systems/sensors calibrations and a solid knowledge of programming language focused on processes automation and interfacing between software and equipment.

## PROFESSIONAL EXPERIENCE

### Gardline Marine Sciences

2018 - 2019

Bathymetric and Topographic data acquisition and processing; Vessel mobilization and System Interface; Vessel dimensional control; GNSS integrity check; Gyro compass and motion sensors calibrations; Acoustic positioning system Calibration; Development processing software; System Interface; Preparation of technical reports.

### EGS Survey

2015 - 2018

Field coordinator; Bathymetric and Topographic data acquisition and processing; Vessel mobilization and System Interface; Vessel dimensional control; GNSS integrity check; Gyro compass and motion sensors calibrations; Acoustic positioning system Calibration; Development processing software; System Interface; Preparation of technical reports and Desktop Studies for Cable router Lay.

### Maritime Hydraulics Lab. (Federal University of Santa Catarina)

2013 - 2014

Numerical modeling; Waves time series analysis; Analysis of potential energy of ocean waves in shallow water.

### Chicago Bridge & Iron

2012 - 2013

Bathymetric and Topographic data acquisition and processing; Development processing software; Vessel mobilization and system Interfacing; Preparation of technical reports.

### Shaw Group

2011 - 2012

Bathymetric and Topographic data acquisition and processing; Development processing software; Vessel mobilization and System Interface; Preparation of technical reports.

### Coastal Planning Engineering

2010 - 2011

Bathymetric and Topographic data acquisition and processing; Development processing software; Vessel mobilization and System Interface; Preparation of technical reports.

### Geological Oceanography Lab. (University of Itajaí Valley)

2009 - 2011

Field coordinator; Bathymetric and Topographic data acquisition and processing; Sediments particle size analysis; Coastal erosion studies at Piçarras Beach; Studies and evaluation of dredging impacts on structures at the Port of Itajaí and Navegantes.

## TRAINING AND CERTIFICATIONS

Data Science Training, Data Science Academy (In progress)

EIVA NaviSuite eLearning (in Progress)

Machine Learning Engineer, Nanodegree, Udacity

Veripos Equipment and Services

CA-EBS - Compressed Air Emergency Breathing System


BOSIET - Basic Offshore Safety Induction & Emergency Training (expire: 07/2023)

OGUK - Oil & Gas UK Medical Certificate (expire: 10/2021)

Seaman's Book Bahamas - SRB547825-00 (expire: 10/2029)

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## PROJECTS

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For a full description of all my jobs visit the **portfolio section** on my **website**

### Senior Surveyor - Gardline Marine Sciences

Project: AUV seabed survey work at the BM-S-8 Carcará Field

Client: Equinor

Vessel: R/V Seward Johnson

- **Activities:** Vessel Mobilization; Systems interface and calibration; Dimensional Control; Positioning data acquisition; Script development for systems interface (Kongsberg AUV Hugin and QPS Qinsy) and data processing; Tide data analysis; USBL Calibration; Technical reports preparations.
- **Equipment:** Applanix POS MV V5; Veripos LD6; Hemisphere Atlas R330; Veripos LD5; Kongsberg HiPAP; Topcon • GNSS-RTK Hiper V; Topcon GM-52 2" Total Station; Knudsen Chirp 300 Series; Teledyne CTD-N.
- **Software:** QPS Qinsy; Kongsberg APOS; Applanix POSView; Veripos Verify QC; Knudsen EchoControl; Hemisphere PocketMax; Teledyne CTD-PRO; Python.

### Senior Surveyor - Gardline Marine Sciences

Project: Environmental Assessment at Santos Basin, Brazil

Client: Petrobras

Vessel: R/V Ocean Stalwart

- **Activities:** Navigator; Systems interface and calibration; Physical, chemical and biological water data acquisition (pH, Dissolved Oxygen, Total Metals, Nutrients, Water Contaminants, Plankton), Sediment sampling, USBL Calibration; Geophysical Surveys
- **Equipment:** Applanix POS MV V5; Veripos LD5; Knudsen Chirp 300 Series; Kongsberg HiPAP 501; Kongsberg cNode; Seabird SBE 32 Carousel Water Sampler Frame; Seabird SBE 33 Carousel Deck Unit; Seabird SBE 9Plus CTD Sensor; Seabird SBE 18 pH Sensor; Seabird SBE 43 Dissolved Oxygen Sensor; Van Veen and Box Corer sediment samplers; Reson 7125; Reson 7150; R.M. Young Relative Humidity & Temperature Model 41342; R.M. Young Marine Wind Monitor Model 05106; R.M. Young Barometric Pressure Sensor Model 61302V.
- **Software:** Hypack; Knudsen EchoControl; Applanix POSView; Seabird Seasave; Seabird SBEDataProcessing; Kongsberg APOS; Python.Teledyne CTD-PRO; Python.

### Senior Surveyor - Gardline Marine Sciences

Project: Acoustic Moorings at Santos Basin, Brazil

Client: Petrobras

Vessel: R/V Seward Johnson

- **Activities:** Deployment of mooring lines; Equipment maintenance and configuration.
- **Equipment:** Applanix POS MV; Veripos LD6; Jasco Passive Acoustic Recorder AMAR G3; CTD: Sea-Bird SBE 37; Teledyne RDI Workhouse; Nortek AWAC; Nortek Aquadopp; Seabird Micrcat SBE 19-Plus
- **Software:** Hypack; Verify QC; Applanix POSView; Knudsen EchoControl; Nortek Aquadopp; Nortek Storm; Seabird Seaterm v2; Seabird SBEDataProcessing; Python.

### GIS Analyst | IT Analyst - EGS Survey

Project: Develop a Database of the São Francisco and Parnaíba River Basins

Client: Brazilian National Water Agency

Vessel: N/A

- **Activities:** Network Structuring; Workstations, Geo-Server and GIS Database configuration; Data processing; Script development for data processing and end product generation; Technical reports preparations
- **Software:** Python; PostgreSQL/PostGIS; QGIS; Python

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## PROJECTS

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### Data Processor | Dev - EGS Survey

Project: Shore Approach. Shallow water hydrographic data acquisition, topobathymetric surveys and beach and seabed sedimentological analysis  
Client: Petrobras  
Vessel: N/A

- **Activities:** Kick off meeting with client; Script development for hydrographic, oceanographic and meteorological data processing; Development of hydrographic survey procedures; Definition of hydrographic equipment and software.; Technical reports preparations.
  - **Equipment:** Trimble GNSS-RTK R8; Teledyne Odom CV100; South SDE-28D; Edgetech 4200; Nortek Aquadopp; Nortek Signature; Onset EMB-RX-300; Onset Hobo MX-2001; Ohmex TideM8.
  - **Software:** Hypack; Edgetech Discover; SonarWiz 6; ESRI ArcGIS; Nortek Storm and Signature; Python.
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### Party Chief | Surveyor | Data Processor - EGS Survey

Project: CITEX-VRPS Submarine Cable System  
Client: Brazilian Army  
Vessel: M/V Amazon Adventure

- **Activities:** Desktop Study; Survey Plan and logistics; Daily Progress Report; Data acquisition and processing; Vessel Mobilization; Systems interface and calibration; Script development for data processing and end product generation; Tide Gauge installation and leveling; Tide data analysis; Sediment samples using Van Veen Sampler; Technical reports preparations.
  - **Equipment:** Veripos LD5; Applanix POS MV V5; Edgetech 6205; Marine Magnetics SeaSPY; Kongsberg Geopulse; SOUTH SDE-28D; Ohmex TideM8.
  - **Software:** QPS QINSy; Edgetech Discover; Applanix POSView; Veripos Verify QC; SonarWiz; Caris HIPS & SIPS; ESRI ArcGIS; Global Mapper; EGS C-View Suite; Python.
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### Senior Surveyor | Data Processor - EGS Survey

Project: SAIL Submarine Cable System (Landfall)  
Client: Huawei Marine  
Vessel: M/V Mar de Abrolhos

- **Activities:** Desktop Study; Technical reports preparations; Vessel Mobilization; Systems interface and calibration; Data acquisition and processing; Script development for data processing and end product generation; Tide Gauge installation and leveling; Tide data analysis;
- **Equipment:** Veripos LD5; Hemisphere VS111; Teledyne Odom MB1; Kongsberg MRU5; Marine Magnetics SeaSPY; Edgetech 4200; Kongsberg Geopulse; Ohmex TideM8.
- **Software:** QPS QINSy; Veripos Verify QC; Edgetech Discover; SonarWiz 6; Caris HIPS & SIPS; ESRI ArcGIS; Python