Curriculum Vitae

Personal information

First name(s) / Surname(s)	Iñaki Funes Macarro
Address(es)	Folkvarsvej 9 2th 2000, Frederiksberg, Denmark
Telephone(s)	+45 51618109 Mobile (Spain): +34 676857700
E-mail	Inyaki.funes@gmail.com
Nationality	Spanish
Date of birth	1987-02-02
Gender	Male

Work experience

Dates	2012-Ongoing
Occupation or position held	Geotechnical Engineer
Main activities and responsibilities	Since my graduation as Civil Engineer and Engineer Geologist I gained experience within foundation engineering, slope stability, analysis of offshore geotechnical investigations, data management and interpretation with gINT software, driveability analyses as well as offshore geotechnical supervision. I gained experience in slope stability analysis using commercial software GEOSlope. This includes set up soil parameters, evaluation of the slope failures and back analysis of existing embankments failures. I have worked with foundation design of offshore monopiles for wind turbines by involvement in offshore wind farm projects. This includes analysis of offshore geotechnical investigations, preparation of geotechnical soil profiles, evaluation of advanced laboratory testing. Also I am experienced in managing of large amounts of geotechnical information in gINT database systems, as well as driveability and back-analyses of monopiles foundations.
Name and address of employer	Ramboll A/S
Type of business or sector	Consulting Engineering

Dates	2011-2012
Occupation or position held	Geotechnical Engineer Assistant
Main activities and responsibilities	Geotechnical engineer assistant in the International Geotechnical Department.I have worked with pile design foundation in bedrock for Mumbai Offshore Motorway together with Systra Halcrow. I also worked with Design of mono pile foundations for DanTysk Offshore Wind Farm. The year in COWI was part of my final year of my master I did an internship + Master Thesis. *Thesis: Study large monopile foundations in multi layered soils. The focus of this thesis was on the effect of layered soil on the py-curves using analytical geotechnical approaches and advanced 2D and 3D numerical analyses*.
Name and address of employer	COWI A/S
Type of business or sector	Consulting Engineering

Education and training

Dates	2010-2012
Title of qualification awarded	MSc Civil Engineering
Principal subjects/occupational skills covered	Advanced soil mechanics, costal engineering and port planning
Name and type of organisation providing education and training	Aalborg Universitet, Aalborg, Denmark
Dates	2005-2012
Title of qualification awarded	MSc Geological Engineering

Principal subjects/occupational skills covered	Soil Mechanics, Rock Mechanics, Foundations, Tunneling, Slopes and Geohazards. Structural Geology, Geophysics, Engineering Geology applications
Name and type of organisation providing education and training	Universitat Politècnica de Catalunya /Universitat de Barcelona, Barcelona, Spain

Personal skills and competences

Mother tongue(s): Spanish/ Catalan

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

(*) Common European Framework of Reference for Languages

Social skills and competences: Enthusiastic, ambitious and easygoing person.

Organisational skills and competences: I consider myself an enthusiast of everything related to geotechnics and tunneling. I really enjoy working in multidisciplinary teams that are able to solve any kind of engineering problems.
Skilled for team working providing easy adaptation to multicultural environments. Self-reliant and ready to take decisions when required.

As young engineer I would like to gain more experience in the underground and tunneling Industry. Rock tunnels and immersed tunnels are one of my main future career interests.

Computer skills and competences: Plaxis 2D and 3D, GEO-Slope, Autocad, GINT, Microsoft Office.

Driving licence: Yes

Additional information

Project references

2014-on going

Nordhavnsvej Tunnel Copenhagen
Nordhavnsvej will be approximately 1.65 km with a 620 m. stretch of Cut & Cover tunnel.
Calculation of slopes on top of the tunnel to regulate the new landscape. Geoslope software is used to evaluate the stability of the slopes with the future traffic loads.

2013-on going

Borkum Riffgrund 02 Wind Farm
External support geotechnical Services.
Ramboll supports Dong Geotechnical Interpretations with the interpretation of the geotechnical investigations and the production of geotechnical design profiles containing measured and interpreted data for each position and production of the 3D Geological Model together with the geophysical department .
Responsible of creation Geotechnical database with gINT Software. Management the development of the database, data handling and interpretation of the main soil units and preparation of the design soil profiles.

The tasks include interpretation of CPT data as well as definition of main soil units using the CPT, boreholes logs and geophysical Data.
Definition of the sub layers in each soil unit and implementation in the database. Interpretation of laboratory tests´in sand and clays, triaxial testing, oedometer test and basic laboratory testing.
Preparation and production design profiles with interpreted characteristic values for foundation design.
Customer: Dong Energy Power A/S
Germany

2013

Esbjerg-Lunderskow
Ramboll and Atkins design the replacement of the 4 bridges to improve the electrification system of the train line Esbjerg-Lundeskow. Responsible of the stability analysis of the 4 bridges, during the construction phase and the final slopes of the bridges. .
Customer: Banedanmark
Denmark

2013 | M10 Greve S - Solrød S
Widening of the Køge Bugt motorway from Greve S to Solrød S. Stability analysis new embankments. Back calculation of a multiple failure of the new embankment for the forth line in the motorway. Evaluation of the possible failure problem and proposal and verification of the final embankment.
Calculation done with GeoSlope.
Customer: Vejdirektoratet, Danish Roads Authorities.
Denmark

2013 | Horns Rev 3 Geotechnical Investigations. Consultancy and Supervision
Client Representative
Horns Rev 3 Geotechnical Investigations. Consultancy and Supervsion of offshore site investigations performing 12 borehole to 50-70m.
Client Representative task include ensuring good sampling, acceptable recoveries as well as approval preliminary borehole profiles.
Contractor of the Offshore geotechnical investigations: GEO.
Offshore Vessel: Sound Prospector.
Customer: Energinet.dk
Denmark

2013 | Borkum Riffgrund West
Responsible interpretation and production 48 design profiles
DONG EnergyWind Power, Denmark, plans to erect a total of 45 wind turbine generators and one offshore substation in the project area of the Offshore Windfarm Borkum Riffgrund West 1.

Ramboll supports Dong Geotechnical Interpretations with the interpretation of the geotechnical investigations and the production of 48 geotechnical design profiles (45 turbine and 3 substations locations) containing measured and interpreted data for each position .
Responsible of creation Geotechnical database with gINT Software. Management the development of the database, data handling and interpretation and preparation of the design soil profiles.
The tasks include interpretation of CPT data as well as definition of main soil units using the CPT, boreholes logs and geophysical Data.
Definition of the sub layers in each soil unit and implementation in the database. Preparation and production design profiles with interpreted characteristic values for foundation design.
Customer: Dong Energy Power A/S
Germany

2012 | Anholt OWF - Engineering Report – BACK CALCULATION OF DRIVEABILITY ANALYSES
Driveability Analysis using GRLWEAP
During driving of the mono piles it was observed that the number of blows to get the piles to target were significant smaller than the blow number stated in the driveability design report.

The task include documentation and explanation why the observed blow counts are different than the ones given in the design report. as well as assessment whether the lower bound soil profiles applied for ULS design are sufficiently conservative.
Customer: Dong Energy Power A/S
Denmark

2012 | Westermost Rough Offshore Wind Farm, Integrated Geotechnology Services
Data managment with gINT, interpretation of geotechnical tests
On the instructions of Westermost Rough Ltd (the Client), and under the supervision of Ramboll (the Engineer), a ground investigation was carried out by Fugro Seacore(the Contractor) at the Westermost Rough Offshore Wind Farm site, located 8km off the east coast of UK near Hull.

In Consultancy with the Client, Ramboll liased and Engineered input to design for offshore wind turbine foundations including supervision of geotechnical and geophysical site investigations and interpretation of soils using World Class Integrated Geotechnology.
Managment the development of the CPT database, data handling and interpretation and preparation of the design soil profiles.
The tasks include interpretation of CPT data as well as definition of main soil units using the CPT, boreholes logs and geophysical Data.
Definition of the sub layers in each soil unit and implementation in the database. Preparation and production design profiles with interpreted characteristic values for foundation design.
Customer: Dong Energy Power A/S
United Kingdom