

FABIÁN A. CAMPOS MONTERO

GEOTECHNICAL ENGINEER

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EDUCATION

**Master of Applied Earth Science
in Geo-Engineering**
Delft University of Technology
2023

**Diploma in Underground
and Overground Geomechanics**
International Geotechnical Center
Cum laude
2020

Licentiate of Science in Geology
University of Costa Rica
Honorable Mention
2017

Bachelor of Science in Geology
University of Costa Rica
2015

SKILLS

Detail-oriented
Data management and analysis
Problem-solving
Python programming
AI and Machine Learning
Critical thinking
Teamwork and leadership
Technical writing
Knowledge transfer

TECHNICAL EXPERTISE

ArcGIS and Q-Gis
Seismic and Electrical Geophysics
Machine Learning Frameworks
Stability analysis & Modelling
Rock Mass Classification
Rocscience Suite
Geotech Site Investigation
GPS and mapping
Engineering Drawing Tools

LANGUAGES

Spanish Native speaker
English Advanced *TOEFL ibt 115*
Dutch Beginner

ABOUT ME

Highly motivated Geotechnical Engineer and Engineering Geologist with a solid foundation in geotechnical engineering principles and a proven track record in applying AI techniques to solve complex engineering problems. Expertise in geotechnical risk assessment, stability analysis, and foundation design. Committed to leveraging AI-driven approaches to enhance the resilience and performance of infrastructure systems.

EXPERIENCE

Graduate Research Intern

Deltares | Dec 2022 - Aug 2023

Developed an AI model, SchemaGAN, that improved geotechnical cross-section interpretation from CPT data. This innovative solution, part of my Master's thesis, has been validated through expert surveys and performance metrics.

Geotechnical Engineer Intern

Royal HaskoningDHV | Aug 2022 - Nov 2022

Examined the influence of anchor length and compared load-distributed anchors with single grout anchors, utilizing deterministic calculations and PLAXIS. The research supported the use of double grouted anchors to mitigate length effect limitations in Belgium's Oosterweel Link Project.

Geotechnical Engineer

Geomechanics UCR Laboratory | 2015 - 2021

Led stability modelling for complex sites such as landfills and residential areas. Directed in-situ tests using SPT, CPT, boreholes, and geophysical surveys, complemented by laboratory testing to generate geotechnical models. Executed bearing capacity calculations and provided foundation recommendations, ensuring local regulatory compliance. Additionally, mentored four junior staff members, assisting with in-situ data processing and stability computations.

Geotechnical Risk Consultant

Inter-American Development Bank | Part time 2018 - 2020

Managed stability risk mapping for roads in Salta, Argentina, and advised on further geotechnical assessments. Assessed geotechnical suitability of scour sites for Quito Metro project and specialized landfill stability in urban areas of La Paz, Bolivia, impacting financial decisions. Collaborated with local government geotechnical departments, providing recommendations to ensure safety and infrastructure reliability.

Professor for Bachelor in Geology

University of Costa Rica | Part time 2018 - 2020

Instructed in Introduction to Geotechnics, including theory and laboratory practice, and Geology Fundamentals. Designed practical exercises and examinations to supplement the provided syllabus. Additionally, provided mentorship for several bachelor's thesis projects.

Technical support and Audio Visual Production

GeoStru Software | Part time 2018 - 2019

Produced educational content for geotechnical software, evaluated and provided feedback on new features, and contributed to the development of trainee programs, ensuring a smooth onboarding experience for new users in the field.