

Alessandro Cascioli

ENERGY ENGINEER · PhD

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Summary

With a Ph.D. in Sustainable Energy and extensive experience in energy consulting, ESG strategy development, and sustainability analysis, I bring strong technical expertise to market analysis roles. My background spans both academic and commercial settings, where I have contributed to innovative projects such as the FRONTSHIP Horizon project and optimized ESG strategies by evaluating impacts, risks, and opportunities. I have developed a deep understanding of green fuels through my research in the Bioenergy and Biofuels lab. Additionally, as a sustainability consultant, I gained knowledge of European energy regulations, sustainability trends, and the drivers of renewable energy markets. This is complemented by robust data analysis skills and expertise in stakeholder engagement, particularly through the application of double materiality principles. Furthermore, my experience in information security management has broadened my perspective, enabling me to recognize the interconnectedness of various knowledge fields. I am seeking a role that leverages my diverse skill set and innovative thinking to accelerate the energy transition while ensuring cybersecurity and data privacy are maintained.

Work Experience

Syntex GreenTech

SUSTAINABILITY CONSULTANT

Perugia, Italy

Oct. 2023 - Present

- Development of ESG strategy based on innovation.
- Support ESG financing decisions and reduction of financial risk.
- Sustainability reporting.
- Analysis of impacts, risks and opportunities in relation to sustainability issues.

Free University of Bozen-Bolzano

RESEARCH AND TEACHING ASSISTANT

Bozen, Italy

Nov. 2022 - Present

- Development and implementation of experimental setups.
- Design and execution of laboratory experiments, collection and analysis of data.
- Contribution to the preparation of research papers, conference abstracts, grant proposals, and project reports.
- Support in teaching activities by mentoring students, and giving exercise classes.
- Contribution to the supervision of PhD students.

Freelancer

ISO 27001:2013/2022 AUDITOR TRAINEE

Italy

Aug. 2021 - Present

- As an ISO 27001 Auditor Trainee, I have undergone lead auditor training in ISO/IEC 27001:2013 and ISO/IEC 27001:2022, focusing on Information Security Management. My role involves gaining practical experience and skills in auditing and assessing information security management systems.

Aalborg University

VISITING PHD CANDIDATE

Aalborg, Denmark

May. 2022 - Sep. 2022

- Supercritical water upgrading of distillation residues of hydrotreated HTL-crude oil; HTL-crude oil upgrading.

Free University of Bozen-Bolzano

PHD CANDIDATE

Bozen, Italy

Oct. 2019 - Oct. 2022

- Development and implementation of experimental setups.
- Design and execution of laboratory experiments, collection and analysis of data.
- Contribution to the preparation of research papers, conference abstracts, grant proposals, and project reports.

Freelancer

CONSULTANT

Italy

Oct. 2018 - Oct. 2019

- Dealer training for stock audit on assignment from a certifying organization for a leading heavy machinery manufacturer.

Freelancer

CONSULTANT AND AUDITOR

Italy

Jul. 2018 - Present

- ISO/IEC 27001 - Information Security Management internal audits for a consulting company.

Freelancer

AUDITOR

Europe

Apr. 2017 - Oct. 2019

- 2nd party compound audit on assignment from a certifying organization for a leading automobile manufacturer.
- Audits held in Italy and abroad (Austria, Germany, Finland, Poland, Portugal, Sweden).

- CE homologation processes of motorcycle helmets, goggles and gloves.
- Management of relationships with suppliers, mainly not Italian (China and Pakistan).

Skills

Programming	SQL, Python, JavaScript, TypeScript, C, Bash, Dart, LaTeX, Matlab
Scientific computing	NumPy, SciPy, Sympy, Pandas, LMFIT
Machine learning	TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost
Data visualization	Tableau, Matplotlib, Seaborn, Plotly, Altair, Sigmaplot
Dashboards and app development	Streamlit, Dash, Django, Flask, React, React Native, NextJS, AstroJS, Flutter, PySide, TKinter
Database management	PostgreSQL, MySQL, SQLite, MongoDB, SupabaseDB

I authorize the processing of my personal data in the CV pursuant to Legislative Decree no. 196 of 30 June 2003 "Personal Data Protection Code" and the GDPR - EU Regulation 2016/679.