

DAVID ABREU DE ANDRADE

Environmental & Sanitary Engineer | ESG, Data & Technology

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Languages: Portuguese (native) • English (fluent) • Spanish (intermediate)

PROFESSIONAL SUMMARY

Environmental & Sanitary Engineering student at UFSC (graduating 2026), with hands-on experience in **environmental licensing**, **solid waste management**, and **Nature-based Solutions (NbS)**. Combines a technical-environmental background with data analysis tools (Python, Power BI) and GIS/CAD software (QGIS, AutoCAD) applied to ESG, sustainability, and process automation challenges. Active in academic, corporate, and volunteer projects with socio-environmental impact.

EDUCATION

B.Sc. in Environmental & Sanitary Engineering
Federal University of Santa Catarina — UFSC

Expected graduation: 2026
Florianópolis, SC

PROFESSIONAL EXPERIENCE

Environmental Engineering Research Intern
LABEFLU — Liquid and Gaseous Effluents Laboratory / UFSC

Jun 2024 – Dec 2024
Florianópolis, SC

- ▶ **Conducted a literature review** on the decommissioning of wastewater treatment plants, producing technical recommendations adopted by the lab team.
- ▶ **Assessed the applicability of Nature-based Solutions (NbS)** in decommissioning projects, supporting decisions on low-cost, sustainable alternatives.
- ▶ **Coordinated field monitoring** and prepared technical operational reports for internal and external project stakeholders.

Environmental Engineering Intern
EGP Engenharia

Jul 2022 – May 2024
Florianópolis, SC

- ▶ **Monitored environmental licensing conditions** for the construction of a residential condominium in the interior of Bahia, ensuring regulatory compliance with the competent environmental agency.
- ▶ **Updated and managed the company's Solid Waste Management Plan (PGRS)**, standardizing routines for segregation, disposal, and traceability of generated waste.
- ▶ **Built spreadsheets and tracking dashboards** for licenses, waste, and effluents, automating the monitoring of deadlines and environmental KPIs.
- ▶ **Organized Environmental Education initiatives** for employees, increasing internal engagement with sustainable practices on construction sites.

PROJECTS

Technical Environmental Portfolio
davidandrade-amb.com.br

2025 – Present
Personal project

- ▶ **Designed and built** a technical portfolio (Next.js/TypeScript, Vercel) with reproducible environmental analyses of Florianópolis: bathing-water quality, tide-driven flooding, and an urban observatory cross-referencing the Master Plan with environmental layers.
- ▶ **Automated geospatial analyses** in Python (pandas/geopandas) and QGIS, with open scripts that reproduce the published figures from the official sources.
- ▶ **Developed an extractor** that structures environmental-license PDFs into navigable data (search, filters, export) and an AI assistant (RAG) over the legal base.
- ▶ **Organized the screening** of the 338 licensable activities under the CONSEMA/SC resolutions, linking each to its competent agency, license, and required study.

VOLUNTEERING & LEADERSHIP

Project Member

Mar 2026 – Present

Enactus Brazil

- **Develops sustainable proposals** with socio-environmental impact, applying entrepreneurship and impact-business methodologies.

Volunteer

Feb 2025 – Present

Cidades Invisíveis

- **Supports social inclusion initiatives** in vulnerable communities, bridging the socio-environmental agenda with human rights.

Sustainability Initiatives Coordinator

Mar 2021 – Dec 2024

NEAMB — Environmental Studies Group / UFSC

- **Implemented sustainability initiatives on campus** involving waste management, environmental education, and mobilization of the academic community.

Technical Volunteer

Mar 2021 – Mar 2023

Instituto Çarakura

- **Supported the environmental regularization** of Permanent Preservation Areas (APPs), including documentation review and on-site technical support.

TECHNICAL SKILLS

Environmental Engineering & Sanitation: Environmental Licensing • Solid Waste Management (PGRS) • Effluent Treatment • Hydrology • Nature-based Solutions (NbS) • Environmental Education • ESG

GIS & Modeling: QGIS • AutoCAD

Data Analysis & BI: Power BI • Advanced Microsoft Excel • Data visualization and technical reporting

Programming & Automation: Python (data analysis and automation) • JavaScript / TypeScript • Next.js • Git/GitHub • Vercel • Applied AI for process automation

Tools: Full Microsoft Office suite • Google Workspace