

## Curriculum Vitae

**Emmanuel M. Hamadziripi, PhD Candidate**

**Senior Environmental Practitioner and Sustainability Consultant**

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### Contact Information

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### Professional Summary

A globally recognized environmental practitioner with 15 years of experience in environmental impact assessments (EIAs), climate change adaptation, and sustainability consulting across Southern and East Africa (Namibia, South Africa, Zimbabwe, Zambia, Angola, Kenya, Malawi, Tanzania). Currently a PhD candidate at the University of Free State, researching transboundary adaptive capacity for food security through climate-smart agriculture, integrating indigenous knowledge and early warning systems. Holds advanced degrees (MSc Environmental Ecology, MSc Development Studies, MBA) and has led over 200 EIA projects across **10 sectors**: Energy, Water, Resources and Waste, Transport, Real Estate, Industrial, Government and Public, Finance and Investment, Technology, and Healthcare Facilities. As a Senior Environmental Practitioner at Erongo Consulting Group, delivered transformative projects like the Zero Carbon Namibia (ZCN) Net Zero Industrial Park, seeking to create about 300 jobs, reducing 250,000 tCO<sub>2</sub>e/year, and integrating nature-based solutions. Renowned for bridging science, policy, and community needs to deliver sustainable, defensible solutions aligned with international standards (IFC, ISO 14001:2015) and local regulations (Namibian EMA, 2007).

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### Core Competencies

- **Environmental Impact Assessments (EIAs):** Led 200+ EIAs, ensuring compliance across 10 sectors with national and international standards.
- **Climate Change Adaptation:** Developed climate-smart agriculture frameworks, benefiting 10,000+ farmers in climate-vulnerable regions – Zambezi Basin, and inland – Namibia, Zimbabwe, Zambia, Botswana.
- **Nature-Based Solutions:** Expertise in biodiversity protection (e.g., 90% Welwitschia survival), ecological restoration, and flood risk management.

- **Multi-Sectoral Project Management:** Delivered projects in Energy (solar, wind), Water (effluent pipelines), Transport (locomotive workshops), and Real Estate (mixed-use townships).
  - **Stakeholder Engagement:** Facilitated inclusive participation
  - **Sustainability Consulting:** Formulated policies for circular economy, resource recovery, and waste management for government clients.
  - **Technical Proficiency:** Skilled in ArcGIS, QGIS, AutoCAD, IoT monitoring (LoRaWAN, 868 MHz), UAV surveys (DJI Mavic 3, 2 cm/pixel), and LCA.
  - **Regulatory Expertise:** Deep knowledge of Namibian EMA (2007), South African NEMA (1998), IFC PS5, and ISO 14001:2015 compliance.
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## Education

- **PhD Candidate, Climate Change and Environmental Studies**  
**University of Free State, Bloemfontein, South Africa (2022 – Present)**  
*Research Focus:* "Building Transboundary Adaptive Capacity for Food Security: A Comparative Analysis of Climate-Smart Agriculture Practices Informed by Indigenous Knowledge Systems and Early Warning Systems (Case Study: Maung, South Africa, and Bulawayo, Zimbabwe)"  
 Developed frameworks benefiting 10,000+ farmers, adopted by SADC policymakers.
- **MSc Environmental Ecology**  
 University of Pretoria, Pretoria, South Africa  
 Achieved 80% revegetation in test sites through soil restoration strategies.
- **MSc Development Studies**  
 National University of Science and Technology, Bulawayo  
 Quantified US\$20M/year economic benefits from solar projects in Zambezi Valley / Basin.
- **MBA (Master of Business Administration)**  
 National University of Science and Technology, Bulawayo  
*Focus:* Strategic Management and Sustainability in Environmental Consulting / Management / Leadership  
 Designed sustainability models adopted by 5 regional consulting firms.

- **Diploma in Project Management Foundations**  
University of Cape Town, Cape Town, South Africa

Mastered project planning and risk mitigation for environmental projects.

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## Certifications and Training

- **ISO 14001:2015 Lead Auditor** (2020): Certified to audit environmental management systems, ensuring compliance for 20+ projects.
  - **ArcGIS Pro Advanced Certification** (2018): Enhanced biodiversity mapping for projects like the ZCN Solar Facility.
  - **Stakeholder Engagement and Conflict Resolution** (2016): Trained by the International Association for Public Participation (IAP2), applied in 50+ public consultations.
  - **Climate Resilience Planning** (2023): Completed at the African Climate Summit, Nairobi, Kenya, focusing on urban resilience strategies.
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## Professional Experience

### Associate Consultant (Senior Environmental Practitioner)

Erongo Consulting Group, Swakopmund, Namibia

*2015 – Present (10 years)*

- Led 200+ EIAs across Energy, Water, Transport, Real Estate, Industrial, Government, Finance, Technology, and Healthcare sectors in Namibia, South Africa, Zambia, Angola, Kenya, Malawi, and Tanzania.
- Spearheading the Zero Carbon Namibia (ZCN) Net Zero Industrial Park, Arandis, Namibia (2024):
  - **Energy:** 150 MW Solar Facility (315 GWh/year) and 50 MW Wind Farm (110 GWh/year), reducing 250,000 tCO<sub>2</sub>e/year.
  - **Industrial:** Green Hydrogen and Ammonia Facility (5,000 tonnes/year hydrogen, 10,000 tonnes/year ammonia).
  - **Transport:** Locomotive Workshop, transitioning to hydrogen trains by 2030.
  - Outcomes: to Create 300 jobs (60% local), contributing N\$60M/year to the economy
- Managed EIAs for mixed-use township developments in Henties Bay, Swakopmund, Windhoek, Tsumeb, Katima Mlilo, Johannesburg, Western Cape, Arandis, Karibib, Gobabis, Grootfontein, Okahandja, etc municipalities / town councils, integrating real estate, water management, and biodiversity protection in coastal dunes.

- Developed EMPs for healthcare facilities, ensuring community health standards and construction impact mitigation.
- Provided strategic advice for government and quasi government institutions (e.g., Erongo RED, Namcol, Ministry of Education, Ministry of Justice, Erongo Regional Council, Ministry of Agriculture, Nampower, etc), focusing on sustainability, urban planning and resource management.
- Conducted compliance monitoring for industrial projects (e.g., Skorpion Zinc Mine), achieving air quality (PM10 <25 µg/m³) and water recycling (30%) targets.

### **Senior Environmental Scientist**

Institute for Impact Sciences & Rserach Design, Namibia

*2019 – date (6 years)*

- Managed EIAs for energy, transport, and water projects, including power lines and effluent pipelines in South Africa and Zambia.
- Oversaw contaminated site remediation, achieving 85% soil recovery and 90% waste recycling rates for industrial clients.
- Provided litigation support in 3 environmental disputes, delivering defensible scientific evidence in Limpopo Province and Lilongwe, Malawi

### **Associate - Environmental Consultant**

Magnus RSA (Pty) Ltd, Johannesburg, South Africa

*2006 – 2010 (4 years)*

- Conducted EIAs for mining permits and waste management projects (landfills) in South Africa and Angola.
  - Developed EMPs for public and private sector clients, including Municipalities, UN Agencies, Diplomatic Missions, etc
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## Key Projects Under Erongo Consulting Group (Selected, Namibian specific)

Sector	Proponent	Project Title	Role/Contribution
Energy	Afri-Track Namibia Holdings (ZCN)	150 MW Solar Energy Facility, Arandis, Namibia	Led EIA, developed ESMP (PM10 <25 µg/m³, 90% Welwitschia survival), created 180 jobs.
Energy	Afri-Track Namibia Holdings (ZCN)	50 MW Wind Energy Farm, Arandis, Namibia	Conducted EIA, implemented bird mitigation (<5 strikes/year), ensured noise compliance (<45 dB).
Industrial	Afri-Track Namibia Holdings (ZCN)	Green Hydrogen and Ammonia Production Facility, Arandis, Namibia (2024)	Managed EIA, ensured zero-carbon production, achieved NH <sub>3</sub> <50 ppm, created 40 jobs.
Transport	Afri-Track Namibia Holdings (ZCN)	Locomotive Repair Workshop, Arandis, Namibia	Oversaw EIA, implemented noise control (<85 dB), facilitated hydrogen train transition plan by 2030.
Real Estate	Schmidtco Property Developers	Mixed-Use Township Development, Portion 115, Henties Bay Townland No. 133, Namibia	Led EIA, integrated sustainable land-use planning, ensured biodiversity protection in coastal dunes.
Real Estate	Kandjumbi Construction	Mixed-Use Township Development, Portion 100, Henties Bay Townland No. 133, Namibia	Conducted EIA, managed water resource impacts, facilitated stakeholder engagement for 100+ I&APs.
Healthcare	Ubuntu Health Services	Healthcare Facility, Erf 6288, Kuisebmond, Walvis Bay, Namibia	Renewed EMP/ECC, ensured community health standards, mitigated construction impacts (dust, noise).
Water	IHS Fund Two (Namibia GP)	Purified Effluent Pipeline, Erf 5748, Walvis Bay, Namibia	Developed EMP, optimized water use (20% recycling), ensured compliance with water quality standards.
Government/Public	Tsumeb Municipality	Township Establishment, Tsumeb Extensions 14 & 15, Otjikoto Region, Namibia (2019)	Formulated EMP, ensured sustainable urban planning, integrated socio-economic benefits (50 jobs).
Industrial	Skorpion Zinc Mine	De-watering & Disposal of Underground Water, Rosh Pinah, Namibia	Conducted impact assessment, achieved 30% water recycling, ensured no groundwater contamination.

Technology	Paratus Telecoms	Installation of Optic Fibre Network, Windhoek, Namibia	Team leader, minimized ecological disruption, managed permitting for urban infrastructure.
Resources/Waste	Mbulelo International	World-Class Recycling Plant, Khorixas, Namibia	Led EIA, achieved 80% waste recycling rate, implemented spill prevention measures.
Finance/Investment	IPBF Windhoek	Township Development, Erven Re/6 & Re/236, Klein Windhoek, Namibia	Provided due diligence, ensured compliance, supported investment case with environmental safeguards.
Government/Public	Sandwich Dune Tours & Safari	Recreational Facility with Conference Facilities, Dune 7, Walvis Bay, Namibia	Conducted EIA, ensured minimal ecological impact in Dorob National Park, facilitated stakeholder input.

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## Impact Dashboard

- **Jobs Created:** 5,500+ across 200 projects (60% local hiring).
  - **Emissions Reduced:** 300,000+ tCO<sub>2</sub>e/year through renewable energy projects.
  - **Stakeholders Engaged:** 1,500+ I&APs in public participation processes.
  - **Biodiversity Protected:** 95% survival rate for critical species
  - **Economic Impact:** US\$150M/year contributed to local economies through procurement and community funds.
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## Publications and Presentations

- Hamadziripi, I. M. M. (2024). "Integrating Indigenous Knowledge into Climate-Smart Agriculture: Lessons from Maung and Bulawayo." (under review)
  - Hamadziripi, I. M. M. (2024). "Transboundary Adaptive Capacity for Food Security in Southern Africa." Presented at the African Climate Summit, Nairobi, Kenya.
  - Hamadziripi, I. M. (2022). "Biodiversity Conservation in Arid Ecosystems: A Case Study of the Namib Desert." NUST, Bulawayo, 8(2), 22–35.
  - Hamadziripi, I. M. (2020). "Socio-Economic Benefits of Renewable Energy in Rural Communities." Presented at the SADC Renewable Energy Conference, Lusaka, Zambia.
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## Awards and Recognitions

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### Community Impact and Volunteering

- **Climate Resilience Workshops (2023–2024)**
  - **Environmental Education Program (2021)**
  - **Water Access Initiative (2020)**
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### Professional Development and Workshops

- **Facilitator, Biodiversity Monitoring Workshop (2024):** Led training for 30 environmental practitioners on UAV-based monitoring, Zambezi Valley, Zambia.
- **Attendee, IFC Performance Standards Training (2022):** Enhanced expertise in land acquisition and compensation (IFC PS5), Johannesburg, South Africa.

- **Facilitator, Stakeholder Engagement Seminar (2021):** Trained 50 government officials on public participation best practices, Windhoek, Namibia.
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## Technical Tools and Software

- **GIS Mapping:** ArcGIS Pro, QGIS (biodiversity and land-use planning).
  - **Environmental Modeling:** HEC-RAS (flood risk), AERMOD (air quality).
  - **Project Management:** MS Project, Primavera P6.
  - **Monitoring Tools:** IoT sensors (LoRaWAN, 868 MHz), UAV surveys (DJI Mavic 3).
  - **Design Software:** AutoCAD (infrastructure layout for township projects).
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## Languages

- **English:** Fluent
  - **Afrikaans:** Fluent
  - **Oshiwambo:** Basic
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## Professional Affiliations

- **International Association for Impact Assessment (IAIA):** Active Member since 2012