



Edwin Josué Espina Sandoval

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Nationality: Guatemalan

ABOUT ME

Civil engineer and public manager specialized in water and coastal marine management with strong experience in the use of Geographic Information Systems oriented to sustainable and resilient urban planning.

High skills in stakeholder management for private and public multidisciplinary projects .

WORK EXPERIENCE

[01/04/2024 – Current]

Research fellow

UN Decade Collaborative Centre for Coastal Resilience -University of Bologna-

City: Bologna | **Country:** Italy

— Training course on resilience addressing environmental and sustainability issues on terrestrial and coastal ecosystems

— Tutor on training courses

— Develop research program on climate predictions and coastal resilience

— Management, monitoring and development of training course proposals

[14/07/2023 – 31/03/2024]

National Water, Sanitation and Hygiene Manager

World Vision

City: Guatemala | **Country:** Guatemala

— Design and planning of the national water, sanitation and hygiene strategy

— Lead the design, planning and budget of the technical program and implementation plans

— Advocate for the water and sanitation sector through strategic relationships, reporting and collaboration with relevant ministries

— Management, monitoring and development of national and international project proposals for fundraising and grants with donors and grants team

— Implementation of strategy program, project management KPI tracking and reporting to support office and donors

[10/03/2023 – 30/06/2023]

Wastewater treatment engineer

INFOM

City: Guatemala | **Country:** Guatemala

— Formulation and evaluation of pre-investment studies

— Formulation, assessment and monitoring of pre-investment studies

— Design of wastewater treatment systems

— Calculation of water and sewage systems

— Inspection of water and sanitation projects

[14/01/2022 – 14/07/2022]

Internship

Tecnoambiente environmental consulting

City: Jerez de la Frontera | **Country:** Spain

Environmental studies assessment and GIS products (biodiversity indicators and standards, ecosystem services valuation, geoprocessing, spatial analysis and thematic cartography) for projects in the following areas:

—Renewable Energy development projects (solar and wind),

—Local Emergency Plans for Forest Fires —PLEIF—

—Fishing studies for dredging activities within inland and maritime waters ports and harbours

[01/06/2019 – 17/10/2020]

Advisor to the Planning Office

Municipal Potable Water Company, Guatemala City

City: Guatemala | **Country:** Guatemala

—Advice and assessment in recovery and planning projects for the water, drainage and wastewater treatment facilities at city level

—Database feed for the geographic information systems network elaboration.

—Approval for local water, rainwater and wastewater piping and treatment systems on existing and new building projects within Guatemala city

[14/01/2016 – 27/08/2020]

Lecturer

Universidad de San Carlos de Guatemala

City: Guatemala | **Country:** Guatemala

Lecturer and thesis advisor at the Graduate School in the Faculty of Engineering for the following courses:

—Assessment of Environmental Impacts in the Energy Sector

—Municipal Services I and II

—Urban land-planning

[13/05/2012 – 30/05/2019]

Head of the Project Evaluation Unit

Municipal Potable Water Company, Guatemala City

City: Guatemala | **Country:** Guatemala

—Assessment, approval, and supervision of water supply, sewerage, and wastewater treatment infrastructure projects within Guatemala City.

—Collaboration for the cartographic database feed of the water, sewerage network and wastewater treatment systems.

—Multidisciplinary and interinstitutional workforce coordination and advice for water and sewerage infrastructure in urban planning.

—Head of the field and projects assessment team, preparation of technical reports on impact mitigation measures in water related projects and presentations of weekly and monthly progress as well as annual work report of the Unit

EDUCATION AND TRAINING

[14/08/2020 – 11/07/2022]

Erasmus Mundus Joint Master Degree in Water and Coastal Management

University of Cadiz, University of Bologna and University of Algarve

City: Cadiz | **Country:** Spain | | **Level in EQF:** EQF level 7

[14/08/2020 – 11/08/2022]

Laurea Magistrale in Analisi e Gestione dell'Ambiente

University of Bologna

City: Bologna | **Country:** Italy | | **Level in EQF:** EQF level 7

[08/01/2015 – 06/07/2017]

Master in Business Administration

Universidad Mariano Gálvez de Guatemala

City: Guatemala | **Country:** Guatemala | | **Level in EQF:** EQF level 7

[13/01/2012 – 25/11/2014] **Master of Science in Sanitary Engineering**

Universidad de San Carlos de Guatemala

City: Guatemala | **Country:** Guatemala | | **Level in EQF:** EQF level 7

[13/01/2012 – 02/03/2016] **Public Manager**

Universidad Mariano Gálvez de Guatemala

City: Guatemala | **Country:** Guatemala |

[13/01/2005 – 25/01/2011] **Civil Engineer**

Universidad de San Carlos de Guatemala

City: Guatemala | **Country:** Guatemala | | **Level in EQF:** EQF level 6

[15/07/2024 – 30/08/2024] **Climate Change for Decision-Makers: Challenges, Transformations, Strategies**

University of Cambridge

[2020 – 2021] **Matlab**

Universidad de Cadiz/Universidad de Las Palmas de Gran Canaria

City: Cadiz | **Country:** Spain |

[2020 – 2021] **Drones para la gestión costera**

Universidad de Cadiz

City: Cadiz | **Country:** Spain |

[20/01/2020 – 14/02/2020] **Sewage Treatment process**

ITEC, Rashtriya Chemicals and Fertilizers Limited

City: Mumbai | **Country:** India |

[29/09/2019 – 05/10/2019] **Climate-induced challenges in water management**

Universitat Siegen, Universidade Federal do Rio Grande do Sul

City: Porto Alegre | **Country:** Brazil |

[03/11/2018 – 22/11/2018] **Urban Water Technologies and Management**

Mashav, The Weitz Center for Sustainable Development

City: Rehovot | **Country:** Israel |

[22/09/2018 – 28/09/2018] **Groundwater protection in the field of tension between sustainability and economy in Latin America**

Universitat Siegen, Universidad Mayor de San Andrés

City: La Paz | **Country:** Bolivia |

[22/04/2018 – 29/04/2018] **Holistic oriented water quality management**

Universitat Siegen, INTA

City: Mendoza | **Country:** Argentina |

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Italian

LISTENING B2 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

French

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

Python | R GIS | Autocad | QGIS | Flammap | Fusion | Google Earth | Jupyter-notebook, | Linux

ORGANISATIONAL SKILLS

Management and organizational skills

- Team player and leadership;
- Planning of activities for the fulfillment of goals and objectives within the assigned deadlines;
- Analytical, communication and relationship-building skills in the context of projects, programmes and policy influencing with partners, donors and stakeholders;
- Conflict resolution and adaptability to work in a fast-paced and changing environment, adapting to changing priorities;
- Openness to learning and incorporating feedback.