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GIANNINA ORTIZ QUESADA

M.Sc._Construction Engineer

Construction Engineer with postgraduate studies at the Master's level in Computing, with emphasis on information systems and the application of technology, bridge assessment, monitoring systems, and quality management and sustainable development. Areas of interest include project management with an emphasis on construction and technology projects, the use of data-mining techniques to extract information and create indicators, and the development and application of information systems for decision-making and technology applications in engineering. Her work also includes applications of technology in the built environment, such as structural monitoring of bridges, information and data management, and technology-supported learning and development assessment.

ACADEMIC BACKGROUND

- **[2003]** Master's Degree in Computing, with emphasis in Information Systems, Instituto Tecnológico de Costa Rica.
- **[2000]** Licentiate Degree in Construction Engineering, Instituto Tecnológico de Costa Rica.
- **[1996]** Bachelor's Degree in Construction Engineering, Instituto Tecnológico de Costa Rica.

PROFESSIONAL DEVELOPMENT

- **[2004]** Implementation of INTE/ISO/IEC 17020:2012, Asesorías Creativas.
- **[2004]** Professional Certificate in Sustainable Urban Development, Universidad de Salamanca.
- **[2004]** International Course on Sustainable Urban Readjustment, Ministry of Housing and Human Settlements.
- **[2004]** Participation in the national workshop for the validation of the "Analysis of the Environment for the Planning and Management of Road Infrastructure Projects under Sustainability Principles," organized by PNUD.
- **[2004]** Public Policy for the Digital Transformation of Transportation, delivered by Banco Interamericano de Desarrollo through the AcademiaBID platform.
- **[2004]** Seminar on Public Works Planning and Urban Mobility, organized by Grupo Consenso for the *Revista de la Red Vial Nacional*.

PROFESSIONAL EXPERIENCE

- **[1998–2007]** Private-sector Consultant.
- **[1997–1998]** Project Engineer, Constructora Gálvez y Volio, Costa Rica.
- **[1996]** Project Engineer, Ministry of Public Works and Transport (MOPT), Road Safety Engineering Department, Costa Rica.
- **[1995]** Assistant Engineer, COMESA, Costa Rica.
- **[2011–Present]** Consultant for projects developed by CIVCO.
- **[2014–2019 / 2012–2025]** Head of Contract Management, CONAVI–TEC.

TEACHING EXPERIENCE

- **[1998–Present]** Instituto Tecnológico de Costa Rica — Full Professor, School of Construction Engineering.
- **[2014–2019 / 2022–Present]** CIVCO — Coordinator, Research Center for Housing and Construction.
- **[2011–Present]** Researcher and Extension Specialist.
- **[2019–2022]** Coordinator, Master's Program in Road Engineering.
- **[2014–2022]** CIVCO — Head, Inspection Area, Research Center for Housing and Construction.
- **[2011–Present]** CIVCO — Engineer for projects.
- **[2012–2013]** Coordinator of the Bridge Research Program.
- **[2007–2011]** Academic Vice-Rector.
- Experience in academic accreditation processes.
- Experience in higher-education planning and administration.
- Experience in research and extension projects.