JAVIER F. ORDOÑEZ, Ph.D., PMP

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Summary	15 years of experience in the design, development and implementation of quantitative risk analysis models and expert systems for a variety of industries. Proven experience performing research and managing interdisciplinary teams. Expert in Monte Carlo Simulation (MCS) techniques.
Accomplishments	Most representative consulting projects include: – US Army Corps of Engineers: Risk-based economical consequence assessment of dams and levees using MCS in conjunction with event trees for the incorporation of continuous variables; Implementation of Logic Trees for epistemic uncertainty assessment using MCS – US Army Corps of Engineers: Development of an Excel add-in for the construction of fault trees that interact with MCS for the incorporation of uncertainties in probability of failure assessment and time dependency aspects – Siemens, Germany: Design and implementation of a risk analysis model to asses project value using MCS – AMGEN, USA: Design and implementation of an Excel add-in for probabilistic project valuation using multi-way sensitivity analysis – Unilever, UK: Design and implementation of an add-in to automate the creation of risk analysis reports for management decision making in models that use MCS. – ASML, The Netherlands: Design and implementation of an add-in for value assessment of high-tech projects that allows mapping the decision making process and compares scenarios. It includes automation of decision trees and sensitivity analysis. – Coca Cola, Greece: Design and implementation of an add-in to automate an operational risk analysis model using MCS. – Select Asset Management, Australia: Design and implementation of an automated risk analysis model to assess the VaR of a portfolio of investments. Automates the connection to external databases for the use of historical data in the risk analysis model. – SAIC, Boston, MA : Design and implementation of an add-in to automate an integrated cost and schedule project risk analysis model using MCS. Schedule and cost information is imported from third party applications for the risk analysis model. – Parsons, Pasadena, CA: Design and implementation of a simulation add-in to assess required cost contingency in construction and service projects using a risk register approach and evaluation of mitigation strategies. – Thane Inc. - Federal Aviation Agency, DC: Schedule risk analysis for the Data Communications Program – MediMedia,PA: Design and Development of simulation model to determine market share of new pharmaceutical products. – South Jersey Industries, NJ: Design and implementation of an automated Principal Component Analysis with MCS model to assess the VaR of a portfolio of future contracts of natural gas. – Borg Warner, MI: Design and implementation of an automated simulation model to assess financial performance and economical value of new products. – Tibotec – Johnson & Johnson, Trenton, NJ: Design and implementation of a simulation algorithm to model resources' attrition and evaluation impacts at a portfolio level. – Nestle, Glendale, CA: Design and implementation of a financial risk analysis model and sensitivity analysis to determine exposure in portfolio of products. – Dominion Transmission, Richmond, VA: Data analysis and measurement of volatility of energy commodities prices. Design and Implementation of stochastic optimization

model to define portfolio of investments and transactions.
- UCB Biopharma, Atlanta, GA: Design and implementation of a risk based decision model to identify scenarios of profitability in the drug development and commercialization process.
- Legacy Energy Management, Houston, TX: Development and design of an add-in to perform statistical analysis in energy prices and construct price-forward models to determine hedging strategies.
- Kansas State University, Manhattan, KS: Implementation of a web-based risk analysis model to determine the most beneficial mitigation strategy
- University of Maryland, Eastern Shore, MD: Design of a model to determine the optimal portfolio of farming investments under uncertainty.
- Milliman, Chicago, IL: Design and development of an automated Risk Register tool for Capital adequacy an economic valuation using MCS.
- Skanska, New York, NY: Design and development of an automated Risk Register tool for Project Cost Contingency determination.
- Cisco Systems, CA: Development of MCS and Decision Tree models for logistics and profitability assessment.

Conducted and customized risk and decision analysis training seminars for:

- Presented at the Palisade's Risk Analysis Conferences in New York, USA, London, UK, Rio de Janeiro, Brasil, Medellin, Colombia, Miami, USA and San Jose, Costa Rica
- Raytheon, Tucson, USA: Project Risk Analysis Techniques using MCS
- O-I Latin America, Sao Paulo, Brasil: Risk analysis in financial applications
- Johnson & Johnson Orthoclinical, USA: Risk analysis in financial applications.
- Johnson & Johnson LifeScan, USA: Risk analysis in financial applications.
- Codelco, Chile, USA: Risk and decision analysis tools in financial and mining applications.
- LCBO, Canada: Risk analysis in financial applications.
- Merck, USA: Risk analysis in financial applications.
- Legg Mason Capital Management, USA: Risk and decision analysis in financial applications.
- Kimberly Clark Latin-American Division: Risk and decision analysis tools in financial applications.
- Shell, USA: Risk and decision analysis for the oil and gas industry.
- Statoil, USA: Decision analysis applications for the oil and gas industry.
- AON, USA: Advanced tools in financial risk analysis.
- Boeing, USA: Cost and contingency estimation using Monte Carlo simulation.
- Louis Berger Group, USA: Risk analysis applied to the construction industry.
- Tecolote Research, USA: Project risk analysis using Monte Carlo simulation.
- United States Marine Corps: Risk and decision analysis tools for financial applications.
- ENDESA, Spain: Risk and decision analysis tools for energy applications
- IMTECH, Spain: Risk and decision analysis tools for energy applications
- IDEA, Spain: Risk and decision analysis tools for energy applications
- Bahrain Petroleum Co, Bahrain: Risk and decision analysis tools for Oil and Gas applications
- RWE Dea AG, Germany: Risk and decision analysis tools for Oil and Gas applications
- Anglo Operations LTD, South Africa, : Risk and decision analysis tools in financial and mining applications.

- **Consultant**

Work History	2016 - Present
	Consulting services that involve risk analysis, decision analysis, data analysis, and optimization models for different type of industries.

- **Director of Custom Solutions & Technical Support Manager**
Palisade Corporation, Ithaca, NY , USA   2009 – 2016

Management and design of custom solutions that involve risk analysis, decision analysis, data analysis, and optimization models.

- **Adjunct Professor**
MBA program, University of Azuay, Cuenca, Ecuador   2010 – Present

Course in Enterprise Risk and Decision Analysis

- **Adjunct Professor**
MBA program, University San Francisco de Quito, Quito,Ecuador   2011 -Present

Course in Simulation Applied to International Financial Markets

- **Senior Risk and Decision Analysis Consultant & Instructor**
Palisade Corporation, Ithaca, NY, USA   2006 – 2008

Provided consultancy services, training and development of optimization, risk analysis and decisions analysis models with application to several industries.

- **Graduate Research Assistant**
Dept. Civil and Env Engineering, Univ. of Maryland, College Park, MD, USA   2004 – 2007

Conducted research on calibration of expert opinion, integrated cost-schedule using MCS and the use of Bayesian networks in project risk analysis.

- **Research Engineer, Consultant**
Edwards and Kelcey, Inc , Baltimore, MD   2004 – 2005

Conducted research and developed decision model for the procurement of Intelligent Transportation Systems.

- **Adjunct Professor**
Dept. Civil and Env Engineering, Univ. of Maryland, College Park, MD, USA   2004

Instructed senior level class: Project planning, scheduling and control

- **Graduate Research Assistant**
Transportation Technology Transfer Center

Dept. Civil and Env Engineering, Univ. of Maryland, College Park, MD, USA   2003 – 2004

Conducted research on best practices for traffic signal timing for the Federal Highway Commission.

	• **Graduate Research Assistant** Dept. Civil and Env Engineering, Univ. of Maryland, College Park, MD, USA 2001 – 2002 Developed software for quality control of construction materials for the Maryland State Highway Administration. Performed database management and VB programming.
Education Certifications Affiliations	• **Ph.D., Risk and Decision Analysis** University of Maryland, College Park, MD 2007 • **M.S., Project Management – Operations Research** University of Maryland, College Park, MD 2003 • **Project Management Professional (PMP)** Project Management Institute 2005 • **Graduate Certificate, Financial Risk Management** Tecnológico de Monterrey, Quito, Ecuador 2009 • **B.S., Civil Engineering** • Universidad de Cuenca, Cuenca, Ecuador 2000