

# MAURICIO GUTIERREZ

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## EDUCATION

University of Kansas, BSCE, 1982  
University of Kansas, MSCE, 1984

## REGISTRATION

Professional Engineer – Illinois

## BACKGROUND

Senior Civil Airport Engineer. Mr. Gutierrez works in airport planning and design projects and has been involved in several airport privatization programs. He has been project and task manager in several projects worldwide. Among his most recent projects and proposals are Bogotá, Colombia; Brasilia, Porto Alegre, Viracopos and Rio Grande do Sul, Brazil; New Cusco International Airport, Peru; Erbil International Airport, Kurdistan Region of Iraq; Prishtina International Airport, Kosovo; Dominican Republic; New Dubai International Airport, Indira Gandhi International Airport, Delhi, India; new commercial airport in Ensenada, Mexico; seven regional airports in Peru; Iquique, Antofagasta, Puerto Montt, Punta Arenas and Calama Airports in Chile; Amman, Jordan; Nigeria Airport Study, New Lisbon International Airport, South Suburban Airport, Chicago, Illinois; and Daniel Oduber Airport, Liberia, Costa Rica.

Currently he is an independent consultant working in airport planning projects and concession programs. He has experienced in several areas of airport planning, including aviation forecasts, demand capacity analyses, facility requirements, development alternatives, airport layout plans and airport site selection. He has worked with private clients and government agencies and organizations.

## EXPERIENCE

Thirty years of experience in airport planning and design.

### 1999 – Present

#### **Independent Consultant:**

**Master Plan of the New International Airport of Costa Rica:** He has helped the Government of Costa Rica to prepare the Technical Terms of Reference and in the bidding process to select a consultant to define the site and prepare the master plan of the international airport that will be located about 60 Km from the capital city of San Jose. The new airport is expected to open in 2025-2030.

**Pouso Alegre, Minas Gerais, Brazil.** He has been part of a consultant team helping a group interested to invest in the development of a new commercial airport in Pouso Alegre, a city in the State of Minas Gerais, Brazil.

**Airport Master Plans of Aeropuertos de Perú (AdeP).** He is the technical manager of the master plan updates of 12 regional airports operated by AdeP, which help to define the short-, medium and long-term investment programs.

**Brownsville/ South Padre Island International Airport, Texas.** He prepared the aviation forecast of this airport located in southeastern Texas as part of a program to modernize and expand the existing passenger terminal area. The analysis considered potential flights coming from different Mexican destinations.

**South Suburban Airport, Illinois.** As part of a consultant team, he helped developing the expected aircraft operations to fly in and out of the South Suburban in order that the FAA could prepare an evaluation of the potential impact of the Chicago airspace.

**Simon Bolivar International Airport, Maiquetía, Caracas, Venezuela.** He prepared the aviation forecasts of the main international airport in order to update the master plan and the investment program to be done.

**San Andres International Airport, San Andrés, Colombia.** In a mission on behalf of ICAO, he went to the island of San Andres to discuss with the local community a proposal of Civil Aeronautics of Colombia to ensure the runway meet ICAO Standards and Recommended Practices to safeguard the aircraft operations that operate there as well the local community. The Colombian authorities

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have set up a work plan to deal with the issue.

**Airport System Plan, Rio Grande do Sul, Brazil.** He prepared several tasks of the Rio Grande do Sul Airport System Plan, which has the goal to define the investments of the main airports operated by the State. There are several major industries in Rio Grande do Sul, and one of the main concerns is the transportation of the products to the markets.

**El Dorado International Airport, Bogotá, Colombia.** He helped a United States consultant in the master plan study of the third busiest airport of Latin America in terms of passengers and first in cargo in the region. He prepared the aviation forecast for the next thirty years, and helped preparing the inventory section of the report. The airport has experienced significant growth in the last twelve years, more than 7% annual average passenger growth. The study was completed in early 2013.

**Supplemental Airport Site Selection Study, Bogotá, Colombia:** Civil Aeronautics of Colombia has become aware El Dorado Airport could reach its airside capacity in the foreseeable future. Hence, a consultant team has been hired to select the best site for the development of a supplemental airport. The potential sites are located west of the city. He helped in several tasks of the study.

**Brasilia International Airport Capital Expenditure Program, Brasilia, Brazil.** As part of team of experts, he helped to develop the capital expenditure program (CAPEX) to be done as part of the concession program that the Government of Brazil has launched to expand and modernize their main commercial airports before the 2014 FIFA World Cup.

**San Fernando de Apure New Airport Site Selection Study, State of Apure, Venezuela:** He worked as a project manager of a team evaluating several candidate sites for the development of a new commercial airport for San Fernando de Apure, the capital and main city of the State of Apure, which borders with areas of Colombia. The current airport has been landlocked by the city development; hence, the Government of Venezuela has decided to build a new airport. The study has had to consider there are many areas that can be flooded, so they are not good for a potential airport development.

**Viracopos, São Paulo and Galeão, Rio de Janeiro International Airports, Brazil.** As part of a consultant team, he helped to prepare the preliminary capital improvement program in the two major airports to determine the required investment costs to enhance the levels of service provided to various airport users. It is important to point out several facilities at the two airports are already dealing with some significant capacity issues, and they have to be addressed in the near future since Brazil is going to hold the World Cup in 2014.

**Porto Alegre International Airport, Porto Alegre, Brazil:** He prepared an initial evaluation of the improvements that could be made to this very important airport in southern Brazil. The existing passenger terminal is not adequate to handle the current levels of aviation demand. He provided preliminary recommendations how the airport could expand in the future. In a second study he helped to evaluate the development alternatives to expand the existing airport as well to build a new airport.

**San Diego de Cabrutica Aerodrome, State of Anzoátegui, Venezuela.** He is part of a team that is preparing a master plan for the aerodrome located in a region of Venezuela that has one of the richest oil reserves in the World, and it is expected to grow significantly in the next few years with the development of oil fields. The plan is to upgrade the airport to facilitate the access to the area since it is located more than 100 Km from the closest airports with regular commercial service.

**Tete International Airport, Mozambique:** On behalf of Aeroports de Moçambique (ADM), he helped to review the site selection study - prepared by another consultant - to relocate the existing Tete Airport since the current one is sitting on top of a very valuable coal mine, and the mining company is willing to pay for its relocation to be able to exploit the area.

**Diosdado Macapagal International Airport, Angeles City, Philippines:** As part of an initial assess-

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ment for a private client to develop the former US Air Force Base, Clark in the Philippines as the main airport for Manila Metro Area, he helped to estimate the existing airside capacity and the development of a third parallel runway which will allow having independent instrument approaches.

**New South Suburban Airport, Chicago, Illinois:** He helped to update the facility requirements for the South Suburban Airport, which is expected to be a supplemental commercial airport in the south side of the metropolitan area of the Chicago region. The State of Illinois is currently purchasing land for the initial development of the airport.

**Balmaceda Airport, Balmaceda, Chile:** He prepared the facility requirements and development alternatives for this airport in southern Chile. The Aysén del General Carlos Ibañez del Campo region has great potential for ecotourism, and in the last few years there has been a significant increase of passenger activity.

**New Cusco International Airport, Cusco, Peru:** On behalf of the International Civil Aviation Organization, he prepared a road map to the Civil Aeronautics of Peru what has to be done to build a new international airport in Cusco. Cusco and nearby Machu Picchu are the main tourist destinations in Peru, and the current airport is very closed to reach its ultimate capacity.

**Erbil International Airport, Kurdistan Region of Iraq:** He prepared the aviation forecasts of Erbil International Airport, which is the capital and main city of Kurdistan Region of Iraq. The Government has built new facilities including a 4,800 m runway, a new passenger terminal with the expectations to attract more traffic. He also worked in the airside and passenger terminal facility requirements.

**Prishtina International Airport, Kosovo:** He helped to review all technical issues for the concession of the Prishtina International Airport, Kosovo, one of the busiest ones in the Balkans. The concession includes the development of a new 25,000 m<sup>2</sup> terminal building with its associated facilities.

**Operational Manuals of Dominican Airports:** He has helped a leading US consultant to review the operational plans to six commercial airports in the Dominican Republic. The manuals should follow the guidelines of ICAO Manual of Certification of Aerodromes.

**New Commercial Airport, Ensenada, Mexico:** He has prepared the airside and passenger terminal facility requirements for a new commercial airport In Ensenada, Mexico. The airport is expected to attract international cargo activity to the Far East from northwest of Mexico as well as from Southern California.

**New Dubai International Airport, Dubai, United Arab Emirates:** He initially helped an US - Lebanese consultant team to develop the airfield layout for the new Jebel Ali International Airport in Dubai. The proposed site has the capacity to accommodate six parallel runways, allowing simultaneous quadruple approaches under Instrument Flight Rules (IFR). The airport expects to start operation at the end of 2008 with one single runway.

He has helped another US Consultant to review the Jebel Ali Master Plan that was prepared in 2005-2006.

**St Lucia International Airports:** He prepared aviation forecasts and passenger terminal facility requirements of the two international airports, George F.L. Charles and Hewanorra, located in the Caribbean island of St Lucia.

**Antofagasta, Chile:** He prepared an airside capacity analysis of the airport and recommended the design aircraft for the airfield.

**Iquique Airport, Chile.** He revised the aviation forecasts prepared for this airport which is located north of Santiago.

**Puerto Montt Airport, Chile.** He prepared a report about the development alternatives that have

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been considered for its future expansion and modernization.

**Punta Arenas, Chile.** He prepared an airside capacity analysis of the runway system at President Carlos Ibañez del Campo Airport in Punta Arenas, Chile. He also estimated the required length to accommodate the most demanding aircraft.

**Nine Regional Airports in Peru, South America:** Working for ICAO, he has developed conceptual master plans of nine regional airports located in the southern part of the country which were part of a concession program sponsored by the Government of Peru.

**King Abdulaziz International Airport (KAIA), Jeddah, Saudi Arabia.** He prepared an assessment of the preliminary airside configuration Section of the KAIA Master Plan prepared by another consultant.

**Indira Gandhi International Airport, Delhi, India:** He was the team leader of an ICAO mission responsible for reviewing the master plan prepared by the airport concessionaire. The airport has experienced great growth in the last three years due to recent liberalization policies in the aviation industry in the country.

**Queen Alia International Airport, Amman, Jordan:** He prepared an operation aircraft forecast report for Queen Alia International Airport to be used in the modeling of noise impacts in the vicinity of the airport.

**Accra Kotoka Internacional Airport Master Plan, Ghana.** He prepared the aviation demand forecasts for the main airport of Ghana, which is one of the most stable countries in Africa with a consistent economy growth in the last 15 years.

**Nigerian Airport Study:** He assisted an US consultant to assess several airports in Nigeria as part of a program to introduce private sector participation in order to invest in the airport infrastructure.

**São Tomé International Airport, São Tomé and Príncipe.** He helped an US consultant to prepare the facility requirements and development alternatives of the São Tomé International Airport, which is located in the small island nation of São Tomé and Príncipe in front of the west coast of Africa. Currently, oil firms are exploring in a nearby area of the Gulf of Guinea for large oil reserves which could change significantly the country's development.

**New Akwa Ibom State International Airport, Akwa Ibom State, Nigeria:** He assisted an US team to develop the airport layout plan for the new Akwa Ibom State International Airport, which is located in the southern part of Nigeria, in the oil region of the country. Its construction is expected to start in 2005.

**South Suburban Airport, Third Chicago Airport, Illinois:** He assisted an US consultant to prepare aviation forecasts and facility requirements for a brand new air carrier airport in the Chicago region, which will supplement the activity currently carried on by O'Hare and Midway Airports. The State of Illinois is already purchasing land required for its initial development.

**Aruba International Airport Master Plan.** He helped an US engineering consultant to develop the aviation forecasts for the Aruba International Airport, a major tourist destination in the Caribbean.

**Assessment of the Liberia International Airport, Guanacaste, Costa Rica:** For a private developer, he assessed the current conditions of Liberia International Airport, which is located in an area of Costa Rica with great tourism potential. The airport needs some major improvements in order to deal with the increasing international traffic. The assessment defines what its most immediate needs are and what steps have to be taken to implement an improvement program at the airport. The client requested to him to update the report three years later.

**Reference Development Plan for the New Lisbon International Airport, Portugal:** He worked with a major US consultant in the preparation of airport reference development plan for the New Lisbon International Airport, which is expected to open after 2010. The Government of Portugal plans to

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develop the new facility with a private partner. The technical consultant prepared all technical specifications for the new airport, which are going to be used as the major guidelines for the bidding process to select the private partner. Among other things, he worked in the preparation of facility requirements, development alternatives, airport layout plans and cost estimates. The proposed site, which is about 45 Km north of Lisbon, has some restrictions because it is confined by three creeks; therefore, the consultant team had to optimize the use of the land available to ensure the feasibility of the airport and at the same time protect sensitive environmental areas.

He originally assisted the consultant in the preparation of a proposal to provide the technical consultant services.

**Federated States of Micronesia Infrastructure Development Plan:** He helped an US consultant in the preparation of an Infrastructure Development Plan (IDP) for the Federated States of Micronesia (FSM) evaluating new capital improvement projects to improve aviation safety and expand existing airport facilities. FSM is a set of small islands located in the Pacific, where air transportation is critical for the four states of the country. The recommendations of the study will be included in the new compact agreement between FSM and the United States for the appropriate funding.

**Juan Santamaría International Airport:** He assisted the Costa Rican Government to respond the appeals of the unsuccessful bidders after the selection of the winning consortium. Then, he helped to prepare the technical sections of the twenty-year concession contract.

After the signing of the contract, he reviewed proposed technical related plans presented by the consortium of Alterra Partners and Airports Group International (AGI) before the airport was transferred to them. They were part of the main requirements that the group had to submit during the transition period and have to be approved by the Administration before transferring the airport to them. His involvement in this project was due to the fact he was the project manager of the master plan that was used as a guideline for the airport concession project.

**Rosario International Airport Master Plan, Argentina.** He helped an US consultant in the preparation of a master plan of the airport serving the third largest city in Argentina.

**Dominican Republic Airports.** He assisted an US consultant to prepare an evaluation of the proposed 20-year development program for four major airports, Santo Domingo, Puerto Plata, Barahona and Samaná that are being concessioned to an international consortium.

**Jorge Chávez International Airport Concession Program Lima, Peru.** He supported an international team submitting a proposal for the concession of the Jorge Chávez International Airport, Lima, Peru. He worked on the development of a master plan that the consortium planned to present as part of their proposal.

1987 – 1999

**TAMS Consultants, Inc.** Representative projects include:

**Juan Santamaría International Airport, San José, Costa Rica.** Project Manager for the airport modernization study of the country's main airport and the busiest airport in Central America. In addition to manage the project, his responsibilities included analysis of existing facilities, development of aviation forecasts for the airport and assessment of facility requirements. The study provided the client with a set of development alternatives that would enhance airport capacity and improve service for the country's primary international gateway. The TAMS study was used as the basis for the concession of this facility and the firm helped the government in the privatization effort.

**Privatization of Guatemala City and Tikal International Airports.** Task manager of all technical issues for the privatization process of the two major airports in Guatemala.

**Krasnoryarsk International Airport, Russia.** Responsible for the development of preliminary airfield and landside alternatives for this airport in central Russia that could be used by commercial aircraft flying the transpolar route from North America to the Far East. The proposed alternative

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included a full parallel taxiway and a new passenger terminal capable of handling 1,000 peak hour passengers.

**Cali International Airport, Colombia.** Reviewed the master plan prepared by Civil Aeronautics of Colombia, which was going to be used as the main guideline for the concession of the second busiest airport in the country. He also did a previous planning study to revise the airport needs for the next ten years and managed another study that estimated the airport's annual maintenance costs.

**Bangkok International Airport, Thailand.** Updated the aviation forecasts for the study performed to estimate the ultimate capacity of the Don Muang International Airport. The study was prepared for the Airports Authority of Thailand (AAT) in order to evaluate the airport capacity and determine if the airport could continue accommodating the future aviation demand in this critical Southeast Asia city until the new airport opens. He also assisted in the airside and terminal capacity analyses.

**Illinois-Indiana Regional Airport Study.** Site Selection, Master Plan and Environmental Assessment for a base five-year planning study for a new major hub airport to be located in the southern sector of the Chicago Metropolitan area. In the study, his responsibilities included preparation of inventory of airport facilities in the region, historic enplanement and aircraft operation data, forecast flight schedules for all the airports in the region, forecast aircraft fleet mix, load factors and aircraft operations, ground access analysis, airport and terminal facility requirements, airport passenger and cargo terminal layouts. Coordinated the data gathering needed to run the FAA's air quality computer analysis model *EDMS*. Responsible for preparing the set of airport layout plans in the master plan study.

**Ramón Villeda Morales International Airport, San Pedro Sula, Honduras.** He coordinated all activities related with the regular airport operation, while the rehabilitation of the runway and construction of a full-parallel taxiway were done. The airport was kept open throughout the capital improvement program without major interruptions.

**Macau International Airport, China.** Participated in the development of various alternative airfield layouts for the new airport that opened in 1994 while Macau was still a Portuguese enclave. Involved in the aircraft flow analysis using the computer simulation model *SIMMOD*. Responsible for preparing the airport layout plan.

**Cartagena International Airport, Colombia.** Participated in the master plan, including future expansion and development of the airport and potential construction of a new runway.

**Master Plan for the Joint Military - Civilian Use of Scott Air Force Base, Illinois.** Estimated the facility requirements, determined impacts on highway traffic and elaborated development alternatives. Responsible for the development of the airport layout plans.

He also worked in Carswell Air Force Base Master Plan, Fort Worth, Texas; Business Express Airlines Terminal at Logan International Airport, Boston; New Passenger Terminal of Barnstable Municipal Airport, Hyannis, Massachusetts; Indianapolis Metropolitan Airport System Plan Update, Indiana and the potential development of a Montgomery County Airpark, Maryland.

1987

**Thompson Consultants International, Briarcliff Manor, New York.** Airport Planner. Performed flow analysis of the passenger ground transportation and aircraft movement at Detroit/Wayne County Metropolitan Airport. Participated in the development of a computer program capable of determining passenger delay due to queue in different elements of the airport terminal. Responsible for a study comparing the difference in the air passenger market between Springfield and Champaign, Illinois.

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### **1985 – 1986**

**Coffman Associates, Kansas City, Missouri.** Airport Planner. Prepared the airport master plans for Manhattan, Kansas, Ottumwa, Iowa and Clinton, Iowa. Involved in the preparation of the terminal master plans for Wichita's Mid Continent and Jabara Airports; Des Moines, Iowa and Portland, Oregon. Determined the condition of the pavement in a pavement analysis and rehabilitation program for Wichita Mid Continent Airport.

### **PRESENTATIONS**

Fourth Annual Airports Council International - Latin America and Caribbean Chapter (ACI-LAC). Presentation "Airport Planning and Design", July 13, 1994, Miami, Florida.

Airport Safety Conference - Airports Council International - Latin America and Caribbean Chapter (ACI-LAC). Presentation on Airport Safety from a Consultant Viewpoint, August 29, 1995. San Jose, Costa Rica.

Latin American - U.S. Aviation Infrastructure and Safety Workshop organized by the American Association of Airport Executives (AAAE). Presentation on Factors and Goals for Planning Expansion Projects, August 1997, San José, Costa Rica.

### **PUBLICATIONS**

*Avanza el programa de modernización aeroportuaria en Costa Rica*, Construcción y Obras Públicas Latinoamérica, December 1997 issue.

### **LANGUAGES**

Spanish – Native Language – Excellent  
English – Excellent  
Portuguese – Fair  
French – Basic

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