



Xiang Huang **Vice President - Engineering** **Services**

SPS

Overview

Dr. Huang has extensive experience in aviation planning and consulting. He served as the project director of the planning and design department of the Shanghai airport construction headquarters. He served for Landrum and Brown company for 10 years, where he was started as consulting consultant and promoted to global vice president. As the OIC, he finished master planning revision and the third phase of expansion projects of Xi'an Airport. Dr. Huang led the team won series bid including east terminal area planning and east terminal design of Xi'an Airport, T3 terminal area planning and terminal design of Xining Airport, Satellite design competition of Shenzhen Airport, Terminal area planning competition of Yantai Airport and T2 terminal concept planning of Wenzhou Airport, etc. As project Manager, he was responsible for many projects including master plan revision, South terminal area detailed planning and T3 terminal area & terminal planning of Pudong Airport, T2 terminal and support facilities design of Guangzhou Airport, and many master planning for different airports including Chengdu Tianfu Airport, Xiamen Xiang'an Airport, Fuzhou Airport. Other airports he served including Mumbai Juhu Airport, Hongqiao Airport, Haikou Airport, Wenzhou Airport, Yantai Airport, Xiamen Gaoqi Airport, and Fuzhou Airport, etc.

Dr. Huang served as a project manager at Shanghai Airport Construction Headquarters and participated in master plan and West terminal design of Hongqiao Airport, Hongqiao integrated transportation hub, the detailed planning of Pudong Airport operation area, and the evaluation system research, etc. He has rich experience in airport planning, design management and airport evaluation etc.

As a senior principal, Dr. Huang founded Strategic Planning Services, Inc. (SPS) with other founders in 2018, which will work with all the company's technical experts to provide airport strategic planning, master Planning, as well as terminal complex conceptual design and airport operation management consulting services for global airport customers.

Airport Planning Experience

Dr Huang taken role in runway-taxiway system study and airside planning and other projects for many airports including Pudong Airport, Xi'an Airport, Guangzhou Airport, Chengdu Tianfu International Airport, Xiamen Xiang'an International Airport. As OIC and project manager he was responsible for coordination and budget and schedule arrangement; Worked as project manager in terminal area planning projects of Haikou Airport, Wenzhou Airport, and Yantai Airport; He has also played an important role in the planning and optimization project of Xiamen Gaoqi Airport, the land transport facilities and system planning project of Fuzhou Airport. He also participated in and completed projects such as the feasibility study of Juhu airport in India. From 2005 to 2008, in the master planning project of Pudong Airport, Dr. Huang was mainly responsible for the planning of the operational area and the south terminal area. In the south terminal area advanced planning Pudong Airport he mainly took charge of the data simulation, the layout of the north terminal area and the satellite programs. He also participated in the writing of general planning of Pudong International Airport and other books worked with others on airport planning. In the planning project of Hongqiao Airport, he undertook the work of master plan revision, terminal area planning, airfield planning and airfield data simulation of Hongqiao Airport.

Terminal & Transportation Facilities Design

As project OIC, Dr Huang participation in the T3 terminal building early concept plan of Pudong Airport; East terminal and transportation centre planning of Xi'an Airport ;West terminal expansion of Hongqiao Airport and Hongqiao integrated transportation and hub core facilities study and satellite planning of Shenzhen Airport where he was responsible for the terminal facility requirements, functional layout, the design of passenger flow and gate design and other works; Dr Huang was work for the Shanghai airport construction headquarters and responsible for core facilities function design, commercial facilities planning and passenger flow design and design coordination of Hongqiao integrated transportation hub projects. And he undertook in the whole process of architect plans, project feasibility study, preliminary design, construction drawing design, etc. In a series of national civil aviation administration, the Shanghai construction and part of the related management evaluation project Dr Huang has achieved a high evaluation.

Airport Evaluation

As project OIC, Dr Huang undertook the Pudong Airport evaluation system research, established the project feasibility scheme from the start to the airport to airport into the operational phase of the daily operation and maintenance of the whole process for accurate evaluation method and system, established the evaluation index system, application system engineering, analytic hierarchy process and fuzzy evaluation method, and created a scientific and reasonable evaluation index system of weight allocation method. The subject has passed the evaluation of Shanghai science and technology committee and obtained the domestic advanced technology evaluation.

Professional Contributions

Dr. Huang also wrote and published several professional articles on airport planning and design and evaluation, and as the main editor completed the book *Shanghai city planning* commissioned by the Shanghai press office, which played a positive role in Shanghai's external publicity. The subject of the airport evaluation system he was responsible for won the Shanghai airport science and technology innovation award.

Education

Bachelor of Engineering, Civil Engineering - Zhejiang University of China

Master of Engineering, Civil Engineering – Zhejiang University of China

Doctor of Philosophy, Civil Engineering – Tongji University of China

Representative Projects

A partial listing of airports Dr. Huang has personally served as follows:

- **Shanghai Pudong International Airport**
 - South Terminal area planning
 - East Terminal area planning
 - Apron simulation study
 - T2 Terminal construction design
 - Master plan study
 - Evaluation system study
 - Airport evaluation system study
 - T1 renovation project
 - T3 terminal conceptual design
 - T1 & T2 terminal space planning
- **Shanghai Hongqiao International Airport**
 - Master plan
 - Airfield planning
 - Terminal area planning
 - West terminal planning & design
 - West terminal passenger flow simulation
 - Facilities development planning
 - T2 terminal space development planning
- **Shanghai Hongqiao Transportation Center**
 - Core facilities design
 - East transportation center design
 - Maglev Hongqiao station design
 - High-speed rail Hongqiao station design
 - Supporting facilities planning
- **Guangzhou Baiyun International Airport**
 - Terminal area apron planning of T2
 - Terminal plans study of T2
 - Baggage and APM system study of T2
 - Supporting facilities planning of T2
- **Xiamen Gaoqi International Airport**
 - Airfield capacity evaluation
 - Airfield refined planning study
- **Xiamen Xiang'an International Airport**
 - Master Planning
 - Airside planning
 - Terminal Area Planning and Design Review
 - Terminal Functional Layout Planning and Design Review
 - Airside transportation system evaluation
- **Wenzhou Yongqiang International Airport**
 - Terminal area planning
 - Aviation demands forecast
- **Yantai Penglai International Airport**
 - Terminal area planning
 - Aviation demands forecast
- **Haikou Meilan International Airport**
 - Terminal area planning
 - Aviation demands forecast
- **Fuzhou Changle International Airport**
 - Master plan
 - Landside transportation road system planning
 - Landside facility planning
- **Shanghai Information Office**
 - Shanghai Urban Planning
- **Chengdu Tianfu International Airport**
 - Master planning
 - Runway system study
 - Terminal passenger flow simulation
 - Landside road system planning
- **Xi'an Xianyang International Airport**
 - Master planning
 - Runway system study
 - Terminal area planning
- Terminal passenger flow planning
- Integrated transportation system study
- East terminal area planning and east terminal design
- **Xiamen Xiang'an (New Airport) International Airport**
 - Master planning
- **Xining Caojiabao International Airport**
 - Terminal area planning
 - T3 Terminal design planning
- **Shenzhen Bao'an International Airport**
 - Satellite planning and design
- **Yinchuan Hedong International Airport**
 - Master planning
- **Luzhou New Airport**
 - Terminal area planning
 - Terminal conceptual planning
- **Zhengzhou Xinzheng International Airport**
 - T2 Terminal conceptual design
 - Terminal passenger flow
- **Hongkong International Airport**
 - Terminal design parameters
 - Passenger activity research
- **Mumbai Juhu Airport, India**
 - Feasibility study
 - Facilities planning
- **Khabarovsk Airport, Russia**
 - Terminal area planning and design and terminal layout planning