

Contact

Chamiseul Apt.206-1202, Hajung-dong, Siheung-si, Gyeonggi-do, 429-250, Republic of Korea
+821092759901 (Mobile)

www.linkedin.com/in/michael-sangdu-han-564b8718 (LinkedIn)

Top Skills

Civil Structures / Interfaces

Power Plants

English

Languages

Chinese Mandarin (Professional Working)

Korean as a mother tongue

English fluent both colloquial and written (Full Professional)

Michael, Sangdu Han

Mumbai - Ahmedabad High Speed Rail Project
Gujarat, India

Summary

Over 35 years' experience in Programme Management, bids, project / transportation analysis, risk assessment, planning, cost control, multidisciplinary design, provision of expert advice, urban planning and site supervision of a variety of projects of EPC (turn-key) and Design & Build contracts including; Diesel Power Plant, Thermal Coal Powered Power Plant, Civil and Urban infrastructural works, Viaducts (FSLM, BCM, SBS, Steel Truss Bridges), Precast Manufacturing, tunneling (TBM+NATM), buildings, power& cement plants, piping and E&M service system Works and varied railways (HSR/Metro/Freight railways) in South Korea, USA, Japan, Taiwan, China, Malaysia, Saudi Arabia, UAE and India.

I have 25-year Mega-size Design & Build HSR/Metro Railway Project Management experiences as project head leading civil and urban infrastructural works, track works and system integration/ engineering on High-Speed Railways, METRO, freight railways projects in Korea, Taiwan, China, UAE, KSA and India. In particular, I have had 15-year HSR experiences and over 7 years of U/G Metro in all disciplines relating to Civil infrastructures, buildings, Track works (Ballast/Fixed concrete slab tracks and Reda (Floating), J-slab, Appitrack), MEPs and Railway systems such as power supply, catenary systems, signal & communication, wayside and rolling stocks etc. in Taiwan, China, KSA, UAE and India.

I have currently been working on Mumbai-Ahmedabad High Speed Rail as PMC CEO/Project Director since October 2021 managing 1,600 PMC staff for entire 508km long HSR and was also lately working from May 2014 through July 2018 on Riyadh Metro as Senior Project Manager (Project Head) of Line5 PMCM (Project Management Construction Management) managing overall management disciplines and from March 2019 to July 2020 on Etihad Rail Stage 2 (474km) as Employer's Project Lead

Major Infrastructure / Railway Experience summary

- High Speed Railways: 15 years (Civil, Trackwork, System Integrations)
- Metro: 7 years (NATM/TBM)
- Freight (heavy haul) Railways: 3 years

Experience

Tata Consulting Engineers Limited

Project Director

October 2021 - Present (4 years 7 months)

Surat, Gujarat, India

Project Management Consultancy on MAHSR Project, India

Project Director, TCAP (TCE/CEG/AARVEE/PADECO JV)

The first High Speed Rail Project connecting Mumbai – Ahmedabad.

This package covers Design & Build of 508 kilometer high speed mainline with 468 kilometers of elevated bridges (FSLM, PSC, Steel Truss), 27 kilometers of TBM/NATM tunnels, 13km of at grade, 12 station buildings 3 Maintenance Workshops and 6 Maintenance Depots

Responsible for overall project management of entire 508km Mumbai-Ahmedabad High Speed Rail Package of 13 Contracts network managing design, procurement, construction, stakeholder, planning, cost control, QA/QC, safety, risk, contract management and test and commissioning of overall High Speed network and interface coordination with track-works, railway systems (Power/OCS/Signal & Communication/Wayside) and Rolling Stocks (Shinkansen E5) managing over 1,600 project staff

Hill International, Inc.

Senior Project Consultant

September 2020 - September 2021 (1 year 1 month)

대한민국 서울

Project Consulting on various projects in Middle East Region

Etihad Rail

Project Lead

March 2019 - July 2020 (1 year 5 months)

Abu Dhabi, United Arab Emirates

Mar 2019-Present Project: Etihad Rail Stage2

- Company: Etihad Rail (The Employer)
- Position: Project Lead
(Chief Line head on 2A & 2B – 389km),

Description:

UAE's national railway network Stage2 consists of 4 mainline packages (2A, 2B, 2C, 2D), Depots and other freight facilities with a total project value of 5.5 Billion USD

The network will run from Ghuweifat to Abu Dhabi, Dubai and through the Northern Emirates to Fujairah with major connecting points and hubs at ports and centres of industry in between. These packages cover in total 605km long Freight/Passenger railways

I am responsible for overall project management of Etihad Rail Package 2A, 2B network managing design, procurement, construction, stakeholder/ interface, planning, cost control, QA/QC, safety, risk, contract management and test and commissioning of overall Etihad Rail network on 2A (139km long) and 2B (240km long) which consists of mostly earthworks (cut&fill) and structural works (over bridges, under bridges, camel underpasses, culverts, road & highways etc.)

Currently managing PMC (Egis) and Jacobs (Engineer)

Design & Build Contractor:

CSCEC/SK JV on 2A
CRCC-Ghantoot JV on 2B

Various

Senior Advisory Consultant

August 2018 - February 2019 (7 months)

Gangnam-gu, Seoul, Korea, Taipei, Taiwan Tokyo, Japan

Position: Senior Advisor working with a variety of EPC/Turnkeys/D&B clients all over the world for the followings:

Seoul/Taipei/Tokyo

Description:

Advising project biddings on the disciplines on:

- Railways – Metro, HSR, Freight rails
- Highways/Infrastructural Works
- Power stations/Desalination/Cement Plants

- General Civil/Building/MEP/Land-Street scaping Works

In particular, in terms of:

- Project Risk Management
- Quality Assurance & Control
- Project Cost Control & Planinng
- Contract Management
- Project Risk Management
- Quality Assurance & Control
- Project Cost Control & Planinng
- Contract Management
- Design on Civil Infrastructural Works
- Construction Method Statement/ITP

Hill International, Inc.

Senior Project Manager (Chief Line Manager)

May 2014 - July 2018 (4 years 3 months)

Riyadh, Saudi Arabia

Project: Riyadh Metro Project Package 3

Company: Hill International

- Client: ArRiyadh Development Authority.

- Position: Senior Project Manager, Line 5

- Project Cost: USD 2.5 Billion on Line 5 / 7.9 Billion on Package 3 - Line 4, 5 & 6

Description:

Package 3 consists of three of the six automated Metro lines (4, 5 and 6).

With a total project value of \$7.9 billion, this package covers 67 kilometers of track with 48 kilometers of elevated alignment, 5.5 kilometers of mined tunnel, 22 stations, and nearly 13 kilometers of bored tunnel constructed through some of the most congested districts in Riyadh. Line 4 links to the King Khalid International Airport with a mix of elevated and at-grade sections. Line 5 will run in a bored tunnel along King Abdulaziz Street between King Abdulaziz Historical Centre and the Riyadh Airbase. Line 6 runs in a half-ring from King Abdullah Financial District, passing Imam Muhammad ibn Saud Islamic University and ending at Prince Saad Ibn Abdulrahman Al Awal Road.

I am responsible for overall management of Line 5 managing design, procurement, construction, interface, planning, cost control, QA/QC, safety, risk, contract management and test and commissioning of overall Riyadh Metro Line 5 inclusive of 13.3-kilometer tunnel boring machine (TBM) tunnel, 11 deep underground stations and an underground depot (54,000sqm).

Responsible for overall PMCM of Line 5 design & build contract with 160 PMCM staff

Design & Build Contractor:

Consortium with FCC/SAMSUNG/Structon/ALSTOM/Freyssinet

Designer: ATKINS (UK) / TYPASA(Spain)

Also, responsible for:supervision of two Depots on design, procurement, construction and test&commissioning

1. Area: 130,000sq.m common depot at grade for Line 4&6 at grade
2. Area: 53,000sq.m underground depot for Line 5

Mott MacDonald

Chief Supervision Engineer

June 2010 - May 2014 (4 years)

Xuzhou, Jiangsu, China

Project: Zhengzhou-Xuzhou PDL High Speed Rail Project, Section 6, Henan-Anhui-Jiangsu Province, China

Company: Mott MacDonald

Client: Ministry of Railway, China.

Contractors: China Railway 7G & 12G

Position: Chief Supervision Engineer

Project Cost: USD 600Million

Description:

Responsible for:

Supervising 60km long HSR bridge structures and track works inclusive of 8.5km at grade

Construction Interface Management

Al Rajhi Holding Group

Senior Construction Manager - Area Manager

July 2009 - June 2010 (1 year)

Saudi Arabia

Project: Haramain High Speed Railway

Al Rajhi Alliance, Project Management Organization, Jeddah, KSA

Client: Saudi Railways Organization (SRO).

Position: Senior Construction Manager

Project Cost: USD 1.8 Billion

Description:

Responsible for:

1. Managing all rail and road bridges and interfaces for 450km long High Speed Rail Project connecting Mecca-Jeddah-Madinah.
2. Design & Constructon Interface Management

Daewoo Engineering & Construction Co.,Ltd.

Project Director

February 2007 - July 2009 (2 years 6 months)

Dubai, UAE

Project: Jumeira Gardens, Dubai, UAE

- Company: Deawoo-Kumho JV

- Client: MERAAS Development

- Position: Project Manager

- Project Cost: USD 300 Million

Description:

Engineering and Construction for 7km long, 60m wide Canal Works at Jumeira Urban Region, Dubai

Taiwan High Speed Rail Corporation.

Senior Section Engineer

September 2002 - November 2006 (4 years 3 months)

Taipei, Taipei City, Taiwan

Project: Taiwan High Speed Railway

Core Systems Installation management connecting Taipei to KaoHsiung , Taiwan, R.O.C.

Position: System Installation management / Senior Section Engineer

Project Cost: USD 5.5 Billion

Description:

Responsible for:

1. Interface on technical issues with Major High Speed Rail Interface Parties i.e. between Core E&M Systems and Civil Works / Trackworks / Depot /

Station Buildings / Noise Barrier Contracts of total 345km of high speed railways

2. Installation management of Core Systems in Tunnels

Hyder Consulting

Taiwan High Speed Rail Project C230 & C240

April 2001 - July 2002 (1 year 4 months)

MiaoLi, Taiwan

2001-2002 Project: Taiwan High Speed Railway, Taiwan

Civil Contract C230 & C240, Taiwan, R.O.C.

- Company: Hyder Consulting,

Designer for Hyundai-Chung Lin-ZEN Pacific Joint Venture – C230 / Designer for Hyundai-Chung Lin Joint Venture – C240

- Client: Taiwan High Speed Rail Corporation

- Position: Senior Design Interface Engineer

- Project Cost: USD 1.1 Billion

Description:

Responsible for coordinating technical design interfaces of total 44.28km (C230: 23.44km+C240: 20.84km) of elevated high speed railway viaduct, cut & fill, mined and cut & cover tunnels with Major High Speed Rail Interface Parties i.e. Core Systems, Station, E&M buildings, Trackworks, Noise Barrier and neighboring Civil Contractors.

Doosan Heavy Industries & Construction

7 years 8 months

Taiwan High Speed Rail Project C280

December 1999 - February 2001 (1 year 3 months)

Chiayi, Taiwan

1999-2001 Project: Taiwan High Speed Railway, Taiwan

Civil Contract C280.

- Company: Samsung, Hanjung and IE&C Joint Venture

- Client: Taiwan High Speed Rail Corporation

- Position: Engineering Manager

- Project Cost: USD \$510 Million

Description:

Seconded to the Joint Venture Team for planning & budget controlling during the design phase of 34.5 km of elevated high speed railway viaduct constructed buildings for a B.O.T. national infrastructure project. The project

required the design and construction of the sub-structure and superstructure for 1,134 elevated viaduct spans. The 1,134 foundations and piers were supported on over four thousand 1.5 to 2.0 meter diameter bored piles. The superstructure consisted of cast-in-place and precast concrete girders using Full-Span-Launching, Balanced Cantilever and Cast-in-Place Methods. The design accounted for seismic, climatic and dynamic loading conditions based on Chinese, Japanese, American and European design codes.

Seoul Metro Line 7

April 1996 - December 1999 (3 years 9 months)

Seoul, South Korea

Project: Seoul Metro Line7, Seoul, Korea

- Company: Korea Heavy Industries & Construction Co., Ltd. (Hanjung)
- Client: Seoul Metropolitan Rapi Transit Corporation
- Position: Senior Design Engineer
- Project Cost: USD \$250 Million – B.O.T.)

Description:

Member of the management team supervising the technical design of a 1600m NATM tunnel and 1000m Steel Box Girder Bridges required for Seoul Metro Line7. Responsibilities included cost estimating and design coordination and design and construction of Storm-drain and irrigation net work

Cabras Power Plant #3 & #4 Extension

July 1993 - April 1996 (2 years 10 months)

Guam, USA

Project: Cabras Power Plant #3 & #4 Extension, Guam, U.S.A.

- Company: Korea Heavy Industries & Construction Co., Ltd. (Hanjung)
- Client: Guam Power Authority
- Position: Site Planning & Design Engineer
- Project Cost: USD \$120 Million

Description:

Supervised the design & construction of Intake and Discharge Structures including foundation works of an Engine and Generator Deck and a 80m high exhaust stack.

Republic of Korea Marine Corps

Republic of Korea Marine Corps

April 1990 - July 1993 (3 years 4 months)

Okinawa, Japan / USA / Korea

Republic of Korea Marine Corps

Division Service Support Group, Construction & Engineering Dept. R.O.K. 1st
Marine Division

- Position: Engineering Officer (1st Lieutenant)

Seconded to FSSG9 - U.S. Marine Corps. for Engineering coordination.

Description:

Supervised the construction of National Security Bureau buildings and Military
access road construction in Pohang District, Korea

Daelim Industrial

Wonju-Hoengsung Highway Extension

October 1989 - April 1990 (7 months)

Wonju, Korea

Project: Wonju-Hoengsung Highway Extension

- Company: Daelim E&C

- Client: Korea Highway Corporation, Korea

- Position: Civil Engineering Assistant

- Project Cost: USD \$20 Million

Description:

Supervised the survey works of 5km long 4-lane As-Con. road.

Education

Kangwon National University

Bachelor of Engineering (B.Eng.), Civil Engineering · (1985 - 1989)

Activity

04/21/2026, Viewed by Peter Anderson