



## Summary of Professional Experience and Qualifications for

**Simon Shim, P.E.**  
**Principal**

Mr. Shim is highly motivated, seasoned, structural engineer / designer who is also an industry-recognized high-rise expert and has 20 year experience on a wide range of building types throughout the US and the Far East, ranging from high-rise mixed-use, residential and commercial projects including supertall to small interior fit-outs. As endeavoring to create innovative solutions based on technical excellence and interdisciplinary coordination, He has contributed to numerous technical engineering guides and Articles, including the “Outrigger Design for High-Rise Buildings” guide published by the Council on Tall Buildings and Urban Habitat (CTBUH), as a peer reviewer. Prior to ADG, Mr. Shim has led a structural group in HOK, Thornton Tomasetti, DeSimone Consulting Engineer in New York and Skidmore, Owings & Merrill (SOM) Chicago.

### Education

University of Illinois at Urbana-Champaign, IL, MSCE, 1999

SungKyunKwan University, Seoul, Korea, BS of Architectural engineering, 1997

### Registrations

Registered Professional Engineer, New York, New Jersey, and Michigan

### Professional Activities

American Society of Civil Engineers (ASCE), member

Structural Engineers Association of New York (SEoNY), member

CTBUH, member

### Representative Project Experience

#### Commercial Facilities



SOCAR Tower, Baku, Azerbaijan, the project consists of a 38-story office tower and midrise podium building connected by connector bridge. Site area is approximately 12,000 square meters and total gross floor area of the project is 98,000 m<sup>2</sup>. Max height at 190 meters, the tower is equipped with dual system consisting of special reinforced concrete shear wall and special steel moment frame to resist wind speed of 53 m/sec 3 second gust and high seismic load.



NSC A1 Spec Tower, a 34-story office tower and six-story above ground podium for the Block A1 Spec Tower in the master-planned Songdo International Business District, in Incheon, South Korea. In addition, we completed design development for the basement and the tower foundation. Since the structure sits on reclaimed soil, the two-meter-thick mat foundation sits on two-meter diameter piles.

Colgate W-Wing and Childcare Center, Piscataway, NJ, a 4 story 150,000 square feet office building and a single-story net zero childcare center. The office buildings are founded on shallow footing, constructed with composite floor frame and concentric steel braced frame. The child care center is a L-shaped single story building formed with two gable roof structure, constructed with steel joist and braced frame founded on the shallow foundation.

### Residential Buildings



Zenith Tower, Busan, Korea, Tallest residential tower in Asia, at 80 stories (984 feet/300 meters), the tallest of three towers in We' ve the Zenith forms the centerpiece of a 4.1 million square foot mixed-use development, which includes a retail podium and six basement levels that used to house retail, parking and mechanical space. Typical floor construction system is concrete flat-plate, with shear walls at the core providing a lateral resisting system. The structure sits on 2.5meter diameter RCD foundations.



Tower Palace III, Seoul, Korea, a 71 Story tall residential Tower that constructed of core wall, composite floor framing with perimeter belt wall.



METAPOLIS, Hwasung, Korea This mixed-use development is about 280,000 square meters (3 million SF) consists of one commercial and four residential highrises, a hotel, and a plaza with retail and community facilities. The tallest of the four residential towers, at 66 stories, is the country' s fourth tallest structure.



Seoul International Financial Center, Seoul, Korea, located in the Yeouido district of Seoul, Korea. The program includes 7 levels below grade of area 193,625 square meters. Above grade will have 330,120 square meters (3.5 million SF) divided between three class A office building and a five-star 800 room hotel.



XI Harborview, Songdo, Korea, located in New Songdo City, Korea. The project is two residential block development containing four (4) 40 story residential towers, eight (8) 15 tory slab building, four (4) townhouses, and numerous amenity facilities in an area of approximately 67,368 square meters.



Lotte Center Hanoi, Hanoi, Vietnam, a 65 story mixed-use tower and five basement levels. The tower accommodates offices, residential, and hotel spaces above grade and parking/mechanical space below grade. The gross area is 253,395 square foot.



Baku Residential Tower, Baku, Azerbaijan, the tower geometry was created by four design process, Spheroid, Crescent, Landmark and form. The project consists of two 46 story and 37 story residential towers and 5 story podium above ground and 3 story basements. Structural floor system consists of 200mm flat slab and perimeter and interior moment frame to resist the severe wind load of 53 m/s 3 second gust and high seismic load of Sds = 1.0g with centralized shear wall (dual system).



Crescent Place, Baku, Azerbaijan, the project consists of a 40 story office tower in City block and three residential towers (40,36,32 story) and one 20 story office in Place block. The site is located near to Caspian Sea. The basic wind speed in Baku is 53 m/s (50 year 3 second gust). Thornton Tomasettis provided the Value Engineering Service to Heerim Architects, Korea.



Incheon Int'l Airport Terminal 2, the terminal has a gross floor area of 350,000 square meters providing a ticketing hall, concession/retail, and concourse with 72 gates. The footprint of the terminal is grounded as 800meters x 1200meters in East-West and North-South.



Millennium Park, Chicago, IL, Primary engineer to analyze and design 300 feet x600 feet steel pipe trellis and Frank Gehry stainless-steel bandshells on 100 feet long cantilever music pavilion roof.

### High-rise Peer Review



1000 Museum, Miami, FL  
Architect: Zaha Hadid



41 East 22<sup>nd</sup> Street, NY  
Architect: KPF



125 Greenwich Street, NY  
Architect: Rafael Vinoly