

M. Gates Browne is a licensed Professional Civil/Structural Engineer in the states of California, Arizona, Texas, Oklahoma (inactive), Iowa, and Ohio. Gates has passed the NCEES 16-hour Structural Engineering Exam (Vertical & Lateral). He is currently employed with Simply Structural located in Tempe, Arizona. During his career he has been involved in the design of residential, commercial, infrastructure, industrial, entertainment, and storm shelter structures.

While at a previous employer (Select Structural Engineering) Gates mastered lateral design of multi-story wood structures, creating awareness of the need for continuous load path with his colleagues, and providing training to other engineers at SSE on the design and detailing of wood structures to meet lateral demands. Gates was the technical manager of SSE's Cedar Rapids office and responsible for re-writing the General Structural Notes to conform with the 2012 IBC and ASCE 7-10.

Gates and his wife, Angie, currently reside in Chandler, Arizona with their two children, Walter (11) and Roger (8). Gates was awarded a Bachelor of Science in Civil Engineering from Arizona State University; additionally, he has taken several graduate level structural engineering courses from North Carolina State University.

Gates has previously been employed by Duke Energy as a member of their Indiana Substation Engineering team. At Duke Energy he was involved in the design and construction of new electrical substations and expansions to existing facilities. Prior to working at Duke Energy Gates spent three years performing Structural Design for Vertex Consulting Structural Engineers located in Scottsdale, Arizona. His employment at Vertex allowed him to become familiar with consulting structural engineering and the construction processes for residential, commercial and industrial projects.

Gates has a working knowledge of the currently adopted structural codes, including: 2012 IBC, ACI 318-11 (concrete), ACI 530-11 (masonry), AISC Steel Manual (14th) & AISC 360-10, AISI cold-formed steel specifications; additionally, he has in-depth experience with ASCE 7-10 wind provisions, and advanced understanding of the 2012 NDS & 2008 SDPWS (wood). Gates has fluency in both the ASD and LRFD methods of design for strength, stability, and serviceability; with a personal preference for LRFD.

Gates' areas of interest include: Structural Engineering (commercial, multi-story, industrial), Amusement Park/Ride Design, Construction Technology, and National Defense.



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