



RUBIX CONSULTANTS, LLC

ABOUT

Rubix functions as building systems engineers who provide structural consulting services on commercial, institutional and industrial projects. The firm was founded by a team of independently minded engineers with expertise in diverse areas, including construction, operations research and finance. Rubix is committed to providing creative and economic solutions that meet clients' engineering requirements with minimal turn-around time. We utilize state-of-the art design, analysis, drafting, and building information modeling (BIM) tools to create and communicate structural systems that are safe, efficient, and integral to the aesthetic and functional requirements of the project.

Rubix allows seamless lines of communication, with minimal organizational hurdles, between the engineers and clients to ensure our goal of providing customized and quality solutions in an expedited manner. Our technical expertise is deep enough, yet our organizational structure nimble enough, to respond appropriately to any project size. We believe that a good set of documents issued (on time) for projects is our biggest marketing tool and this philosophy is pursued through an informed interaction with the client, and obsessive attention to detail.

SERVICES OFFERED

- Structural Schematic, Design Development, and Contract Documents for new structures, additions, or modifications.
- Code Research and Value Engineering
- Structural prototype document development for "roll-out" type buildings for retail and restaurant use.
- Site visits, structural observation, and inspections including documenting existing conditions and feasibility reports.
- Seismic and wind load analysis of existing structures and design of retrofit reinforcing to meet present code.
- Costing analysis and contractor bid review
- Structural Peer Review

GEOGRAPHIC REACH

Rubix is headquartered in Chicago and can provide consulting services on projects in all US states, the District of Columbia, and Canadian provinces. Additionally, Rubix works with trusted collaborators on the US east and west coasts, and in Canada for professional services, including site visits. This strategy maximizes value to the client by limiting travel and other expenses, and shortens the response time to project needs during the construction phase.

PORTFOLIO

The team at Rubix has serviced the following end-user clients, either through Rubix, or through a previous employer (functioning as project manager and/or primary client contact in each instance)

Apple Computer
Sephora
LVMH
McDonalds
Chuck-E-Cheese

Carrefour
Limited Brands
ITC
Dollar General Corporation
J Crew

Pacer Logistics
Talbots
Woolworths
Advance Auto Parts
TD Bank

KEY MEMBERS

Ashif Panakkat, P.E. - Partner

Mr. Panakkat is a registered professional engineer in eighteen US states. He holds a Master of Science degree in Civil Engineering, with a focus on structures, from The Ohio State University. He was at M Engineering in their Westerville, OH and Chicago, IL offices between 2003 and 2011. During this time, Mr. Panakkat managed the structural scope on flagship commercial, institutional and industrial construction projects. He also gained expert-level experience in managing the structural scope on very fast-paced retail construction and remodel projects, including those for clients such as McDonalds, Apple Computer, Sephora, Talbots, and LVMH. At Ohio State he was awarded the prestigious University Fellowship and published research work in international journals. He has also been invited to give lectures at professional and trade seminars. Mr. Panakkat brings a targeted understanding of structural engineering services and construction projects to Rubix.

Chandrashekar Ramaswamy – Partner

Mr. Ramaswamy holds a Master of Science degree in Industrial Engineering from The Pennsylvania State University and has considerable expertise in Operations Research and Supply Chain Management. He has successfully handled strategic and implementation projects for diverse clients in the retail and logistics domains. He also has prior experience with finite element analysis and is well versed in cutting edge design, drafting and building information modeling (BIM) tools. Mr. Ramaswamy utilizes his technical expertise and knowledge of business processes to ensure optimized delivery of solutions; handles project management and coordinates non-production related activities including client communication. He also focuses on designing new service delivery models in order to achieve maximum customer satisfaction.

Sonu Varghese, Ph.D. – Partner

Dr. Varghese has a Ph.D. in Mechanical Engineering from Purdue University, his dissertation work involving turbulent biofluid simulation. His seminal work in this area, done in collaboration with scientists at Argonne National Laboratories, resulted in multiple publications in the premier Journal of Fluid Mechanics that are frequently cited. He is proficient in mathematical modeling of extremely non-linear physical systems and has widespread experience with techniques such as finite element analysis and spectral methods. He has also successfully developed pricing models and non-linear forecasting tools for risk-management in the financial markets. Dr. Varghese utilizes his sizable modeling experience to address the engineering aspects of Rubix's projects. He is adept at identifying inefficiencies in building systems through numerical techniques and offering solutions that result in structures that are optimized for construction time, material weight and cost. Dr. Varghese is also responsible for business development, technology/communication and investment strategies for Rubix.