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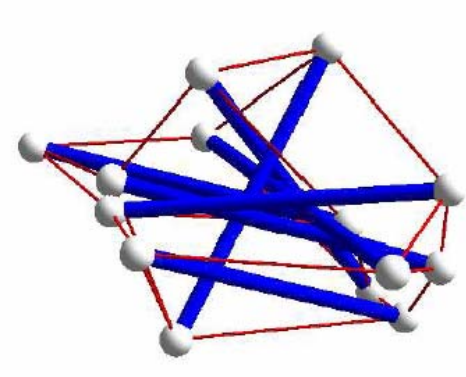
Design and fabrication of tensegrity-based robots



This projects involves design and construction of a robot constructed entirely of struts and cables. They move by extending and contracting the cables and struts. These new kinds of robots are potentially very light weight, robust, are compact to stow and easy to deploy, but to date none have ever been built. The goal of this project is to explore the properties of these robots, the best ways to design, construct and control them, and to demonstrate their operation for tasks such as locomotion, navigation and manipulation. Suitable for a single student or a team of two. To learn more, visit http://www.mae.cornell.edu/ccsl/research/tensegrity