

Make it Real CAD Engineering Challenge

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I created this piece as a solution to a problem that we face frequently while creating our robots. When working on our builds we frequently struggle with structural integrity as our robots either end up rocking, or moving in places they shouldn't. Specifically, I designed this piece with the goal being to improve the robot's structure on a large scale.

In a robot build this piece would attach to the lower end of a main piece of the structure, and an identical piece would be on the higher end of an opposite beam, allowing for an axle to be placed in the socket of both pieces creating a temporary, and easily modified structure aid. Please refer to our video in order to see the pieces in context.