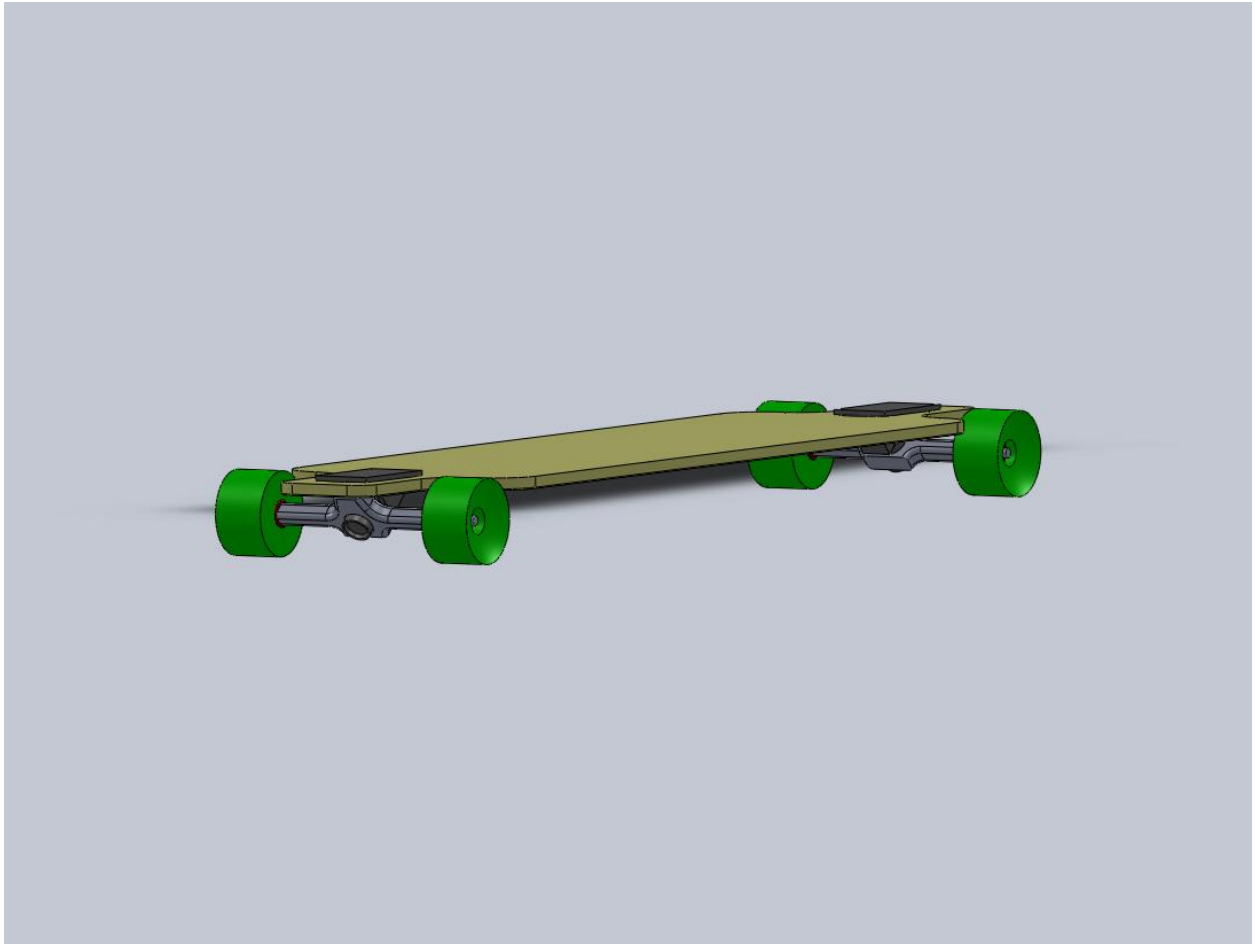


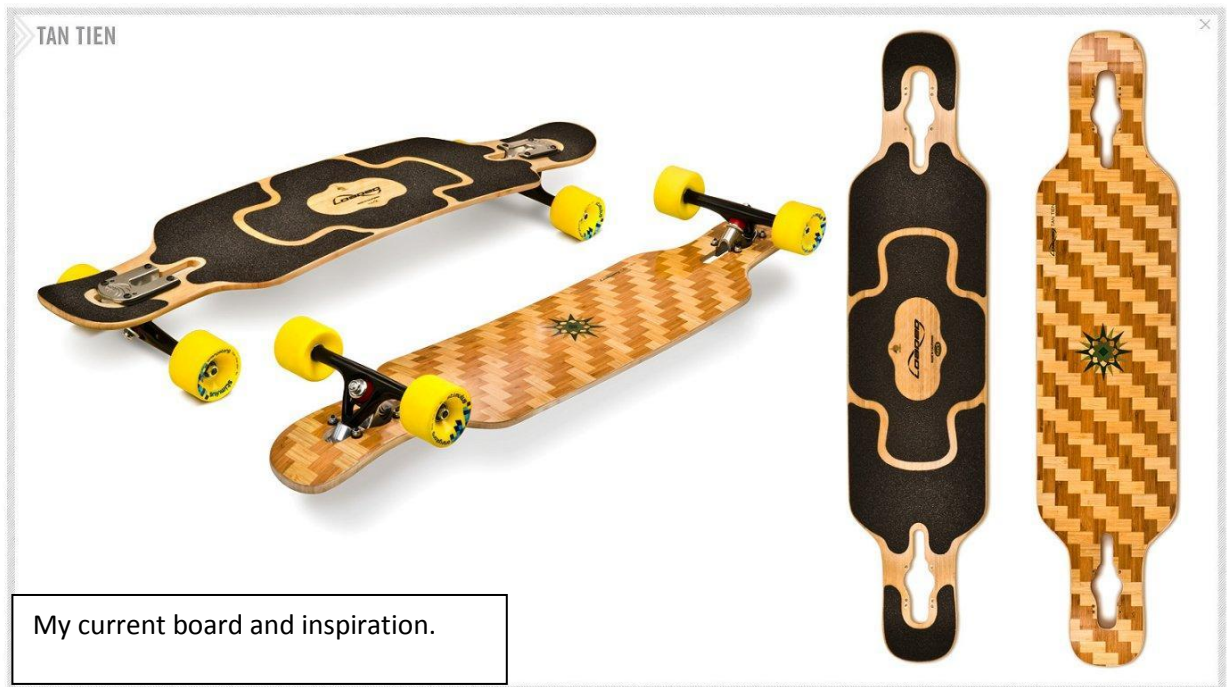
## Longboard Personal CAD Project

### Zachary Ryan



I chose to create a longboard in CAD because it has been a recent passion of mine, and thought it would be both fun and informative to try and model one. It provided insight into the inner working of the trucks, bushings, and hanger, and how they all interact with each other. This was the most difficult part, as the bushings inside of the trucks are supposed to compress to allow turning of the trucks without any part becoming detached. It was immense fun to recreate this because I browse longboards quite frequently and it was fun to combine the best concepts of some boards that I have seen. There are several decks akin to the one I made, but the main inspiration was the board I am currently riding- the Loaded Tan Tien.

CAD, or SolidWorks more specifically, is a perfectly adequate 3d design tool. It provides some challenges in things like compressibility and flex, but all-in-all, it wasn't too much of a challenge.



Source:

<http://www.stokedlongboarding.com/wp-content/uploads/2010/11/loaded-tan-tien.jpg>

