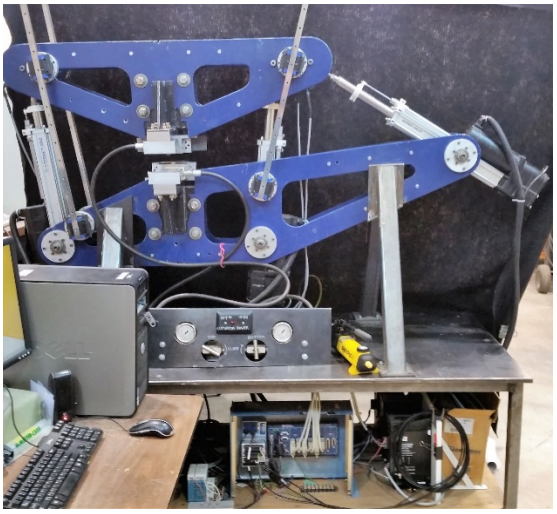
MSU 6-D Loader, V1.0

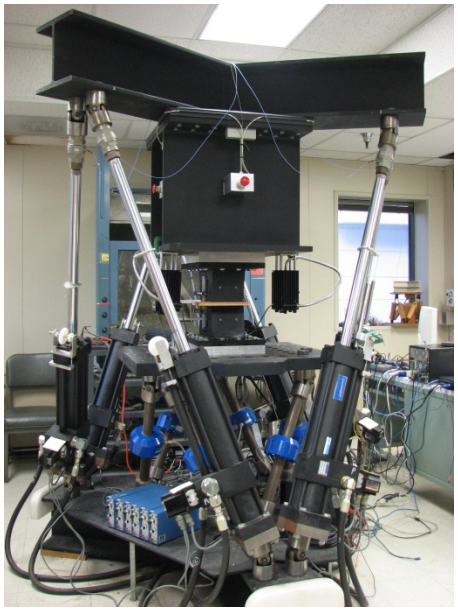
The MSU Composites Technologies Research group has developed a unique mechanical testing device known as the In-Plane Loader, shown below.



This device has been successfully implemented and can impart simultaneous displacement in, *u,v,* and rotation into a testing coupon.

MSU is ready to move the next phase, 6-D!!! This device will enable *u,v,w* displacement and three rotations into the coupon.

This will be accomplished by the use of hexapod recently acquired by the Composites Technologies Research group. This hexapod was previously utilized as a vehicle simulator like in the picture below.



This Capstone Project is to design and build a frame around the acquired hexapod to react loads and moments through a coupon. Considerations of force measurement, machine stiffness, strain measurement, coupon gripping, among other things!!