

Project Title:

Linear Actuator

Members:

Patrice T. Jackson, Shaun Downey

Advisor:

Steve Gutschlag

Description:

In many earth-moving machines, the cab design is inadequate and causes the operator of the machine to have health problems. The goal of our project is to redesign the platform in which the cab resides. By redesigning the platform, we hope to decrease the amount of vibration and oscillatory motion felt by the operator. In order to decrease the amount of vibration felt by the operator we will create a three-foot platform and apply a three hundred pound force to the platform and attempt to reduce the oscillatory motion felt by the weight. The design of the platform will require the use of power electronics, a micro controller, and three linear actuators.

Email:

pjackson@bradley.edu, downey18@hotmail.com

Code name:

vanchoco