

10/16/14

Meeting in senior design suite

Goal: discuss drive train of robot

Discussion: pros and cons of different designs for drive train of robot

Drive type	Pro	Con
Skid Steer	Simple May use tread Single motor per side	Bad for wheel encoder Clumsy Short wheel base
Car design	Wheels don't slip while turning Easy to drive	Difficult 4-wheel drive One axle/motor Limited turn radius
Hinge design	No/limited slip Can be longer body design	Non-zero turn radius Need multiple motors

Design chosen- skid steer will be best because of zero turn radius and simplicity of design.

Goal for next meeting: do design matrix for drive train to fully compare each design.