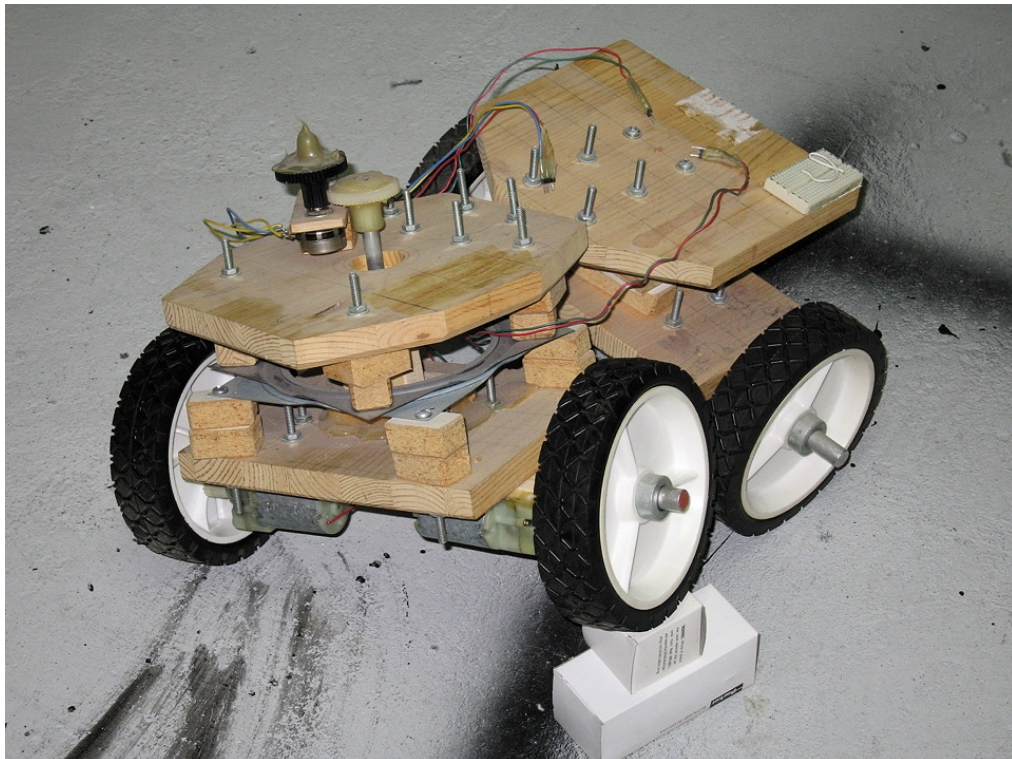
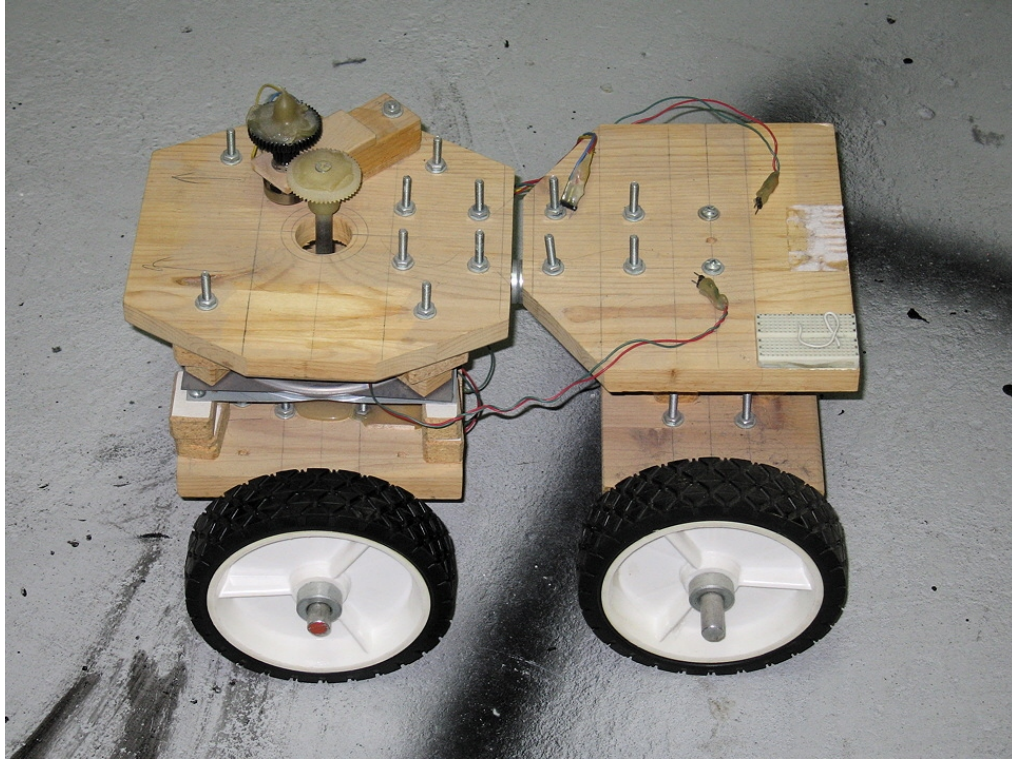


Wheeled Rover with Wagon Steering



- ❖ Rover for testing wagon steering and drive control architectures for a mobile robot, built in 1994
- ❖ Wooden body components, 4 wheels on shafts with bushings, 2 (front) electric drive motors
- ❖ Separate front and rear platforms connected by a free-running roll joint (shaft)
- ❖ Front platform sits on its bogie using a free-running joint (lazy-suzan); rear platform is on a fixed bogie
- ❖ Front wheels driven by electric gear-head motors, providing simultaneous motive and steering forces
- ❖ Steering angle measured at front platform-bogie joint using a rotary potentiometer and shaft/gearing