MEDIA

2-speed electric motor scooter

Video link:

https://www.youtube.com/watch?v=Vr6SIEmcQsE&list=UUdNh4f7oH2KZj-ZOQIJoqtw

Electric Skateboard

Video link:
https://www.youtube.com/watch?v=pmrfTLEv1Iw&list=UUdNh4f7oH2KZj-ZOQIJoqtw

Electric bike

Video Link:

https://www.youtube.com/watch?v=uvniCkAuvoI

Automatic Door Opener

Vidoe Link:

https://www.youtube.com/watch?v=L_RVO3LpevE&list=UUdNh4f7oH2KZj-ZOQIJoqtw

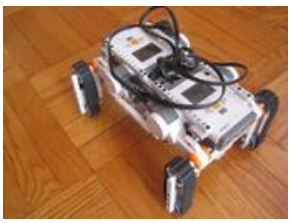
Skateboarding Half Pipe

This is a skateboarding half pipe that I built with my brother and dad. It is made of plywood and 2x4s. We built it in our backyard for under $350. The dimesions are 18x8x4(tall).

Model Wind Tunnel

Video Link:

https://www.youtube.com/watch?v=qDQncRSlL8c&list=UUdNh4f7oH2KZj-ZOQIJoqtw&index=7



Lego Quad Rover

Video Link:

https://www.youtube.com/watch?v=SzsHTCfwbkE&index=14&list=UUdNh4f7oH2KZj-ZOQIJoqtw

Quadcopter

Video Link:

https://www.youtube.com/watch?v=1rlmVwU0Bzw

R/C Hovercraft

Video Link:

https://www.youtube.com/watch?v=b1Vxhn-CvUU

R/C or Autonomous Tank

Video Link:

https://www.youtube.com/watch?v=fHvP5uDMyBk

R/C Lego Hubless Rover

Video Link:

https://www.youtube.com/watch?v=euEI5M0LSs8&list=UUdNh4f7oH2KZj-ZOQIJoqtw

Lego 5 DOF Robotic Arm

Video Link:

https://www.youtube.com/watch?v=SMOviZmf5VM

R/C Speed Boat

Video Link:

https://www.youtube.com/watch?v=e6Ca-9pKZZw

Automatic Light System

This is an automatic light activating system that I built using my Lego Mindstorms Robotics Kit. Using an ultrasonic sensor, the system will turn on the light every time you walk into the room, and it will turn off the light when you walk out.

Vending Machine

This is a project that I am working on with other members of the robotics team at my school. It is a soda can vending machine that uses a robotic arm to pick up a can and deliver it to the user.

Tennis Ball Cannon

This is an air-pressured tennis ball cannon that I built with a friend for a physics demonstration at my high school. We used it to show that range varies quadratically with initial launch speed. The cannon can shoot tennis balls over 200ft and it can be set at specific angles.

Human Quadcopter

This is one of my dream projects. It is a quadcopter about the size of a car that can carry one person. It is my idea of a futuristic flying personal vehicle. What you see in the picture is completely designed by me using Autdodesk CAD software. Although I have not yet built it, I have researched the parts that I would need to buy to make it work. I hope to be able to get enough money to be able to start building this quadcopter.

Vending Machine (Actual)

This shows the progress of the real vending machine based off of the CAD model. We have built the robotic arm and the frame of the the vending machine.