



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

Name(s) Nicholas G. Gomez	Project Number J0215
Project Title Let There Be Lift	
Abstract Objectives/Goals My objective was to create a wheelchair that could go up a common street curb. Methods/Materials Wheelchair, electric actuators, skateboard wheels, power supply, hose clamps, threaded bar, four DPDT switches, circuitry box, and wire. The way I achieved my objective was by attaching two actuators to the back of a wheelchair and two to the front. I placed axles through each set of actuators and attached skateboard wheels to each axle. Next I placed the power supply under the wheelchair and wired all the actuators together. Results My wheelchair was able to successfully lift a person up and roll him onto a curb. Therefore, my objective was accomplished. Conclusions/Discussion My original hypothesis was proven correct. A handicapped person can be assisted in going up curbs with the new wheelchair design. Doing this project also taught me that handicapped persons should be treated with great respect.	
Summary Statement I built a wheelchair that can go up a curb.	
Help Received My dad supervised me in the construction of the wheelchair and with the poster board assemblage. My mom helped with the board and my teacher helped perfect my written work.	