



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Kevin T. Yamazaki	Project Number 22598
Project Title Hovercraft Skirts	
Objectives/Goals ABSTRACT	Abstract <p>The Hovercraft is a modern invention, which glides on a cushion of air. A fan pushes down the cushion of air into a rubber skirt#. A skirt surrounds the hovercraft to provide air supply and to balance the cushion of air. Obviously, everything has some type of drag/resistance, it is just a matter of controlling these setbacks. Which hovercraft skirt works best? I will test the main skirt types. Construct 3 identical hovercraft bodies. Mount the fan on a hovercraft. Launch it from a rubber band pulled back to a certain mark on the floor. Repeat 5 times for each hovercraft and measure where it comes to a complete stop. The finger skirt was the most frictionless and was able to glide the furthest on the ground. Each finger was able to get the most hover-height. The bag skirt had the least amount of peripheral jet stream. The bag skirt with splitter had the same contact points, but a better peripheral jet stream. To succeed in creating the best type of hovercraft skirt, use a finger skirt to minimize contact points and maximize peripheral jet streams (increasing hover-height).</p>
Summary Statement My project is about the comparison of different skirt's hoverheights when applied to a hovercraft.	
Help Received	