



## HAPPENINGS @ SCHOOL



Sri Sri Academy, Kolkata, participated in the TinkerFest 2018 organized in Kolkata. The ATL students participated under the Robotics category. The participating students have designed a "blindstick" that would alert the blind person through the beeping of an active buzzer when it senses any obstacle ahead. Considering the fact that the person could be hearing impaired, a vibrator has been installed that will alert the person through periodic vibrations. Keeping in mind one of the themes of Tinker Fest which is, "Green", the students have begun a "No Honking" project which will be used to prevent unnecessary honking of stationary vehicles in a traffic jam. It would even detect the slow movement of the traffic and prevent the blowing of horn. The first round of assessment was done in school on 29 October 2018. The results were declared on 15 November where Sri Sri Academy, Kolkata was selected as one of the Top 12 Schools out of 91 participating schools and exhibited their creative inventions on the 24th and 25th of November at Newtown school. It is needless to say that hundreds of guests including the guest of honor, Mr. Rajat Ojha (CEO of Gamotronics), appreciated Srians for thinking out of the box and working towards innovation in its truest sense. It was overall a confidence-boosting exposure for the students enriching them with experience and knowledge.



## STUDENT SPEAK

"It was the first time we presented our work in front of so many people in an exhibition. We were nervous but, at the same time, confident about our work. We were nervous because we were one of the youngest participants. Most of the participants were our seniors. We received many suggestions for improvement and were given the scope to modify our project. The inspiring notes of appreciation in the feedback page are very motivating."

-Krish Sharma and Upkirat Singh (class 7)  
Archit Saraogi and Devansh Saraf (class 8).



"It was a tough competition. We, being the youngest, had to compete with the seniors. But it was also very encouraging when we received the valuable feedback from the visiting guests."

-Kishnav Dalmia, Tanmay Ranka, Sanchit Jain,  
Krishnendu Roy and Keshav Gupta (class 7).



## Do It Yourself

**Innovation idea 1:** The idea is to have another bulb below the main bulb of the torch so that light is available near the feet of user and also for people following the user.



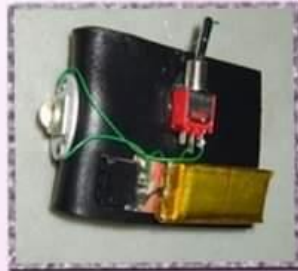
**Innovation idea 2:** A pen with pressure sensors on the grip to indicate loss of concentration when the grip loosens.

## Book lovers Cap-Mounted Reading Light Project:

Book lovers want to read books where ever they go. But proper lighting condition is necessary for a pleasant reading experience. Here is an Idea of a simple LED light mounted on a baseball cap that can be made with very few easily available components.

The components required are as follows:

1. a piece of foam board, approx 1 3/8" x 3 3/4"
2. a soft, white, LED
3. a toggle switch
4. a small Lithium Polymer battery
5. a 20 ohm resistor
6. a glue gun
7. a roll of both sided tape
8. wire, solder, soldering iron
9. a baseball cap



### Building Steps:

On the foam board we can arrange the Lithium Polymer battery and fix it with the both sided tape so that it stays on the upper surface. The LED should be fixed on the front part of the assembly so that the light can be focused from the front part of the assembly. We can fix the toggle switch beside the battery so that it can be easily operated.

### The Wire Connections:

Wires need to be soldered on LED. The cathode pin of the LED needs to be connected on the negative lead of the battery. The anode pin should be wired with one pin of the toggle switch. The other pin of the switch needs to be soldered with a wire that will get connected with the positive lead of the battery.

### Final Assembly:

The complete foam board now needs to be fixed on the front part of a baseball cap with glue or with stitches as per the surface and we are done! Happy reading...!