

# Toshiba/NSTA ExploraVision National STEM Competition

Toshiba/NSTA ExploraVision is a national STEM competition that challenges the students to look 20 years into the future. The students researched current technology and imagined what it would be in 20 years. The students put a lot of hard work during STEM for this project. We submitted 33 projects from grades 3rd-5th. This year we are honored to have 3 teams achieve national honorable mention in the contest. This means that their projects were the Top 10% in the Nation and I was also able to be named a Top 27 coach for the eligible projects submitted. Each students project that was submitted will receive an entry prize and certificate.



Toshiba/NSTA ExploraVision

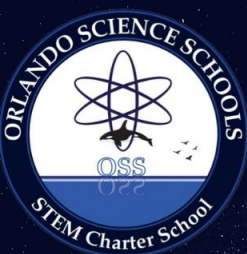
## EUATV



Top 10% in the Nation






Teja Dhulipala  
Moonish Badaloo Jr.  
Owais Khan  
Gavin Tucker



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## EXPLORAVISION HONORABLE MENTION

Top 10 % in the nation!



EUATV      Food Pix:      Camo Cam

The following are the abstracts for the three Honorable Mentions

## EUATV:

The EUATV (environmental unmanned all-terrain vehicle) is a special vehicle that can go on all the 3 main terrains: land, sea, and air. Our vehicle is designed to diminish the environmental problems faced in today's world. Our design is a semi-autonomous. The electromagnetic grabber will be used to lift many impurities in the environment. It will also have floats so that when it goes for a water landing, it will inflate the floats so it can float on water. The floats will deploy on either side of the EUATV. It will have a propeller that will propel it to its destination. Our vehicle will use its floats like a BCD to go up and down. The insulation will be an extremely temperature retardant kaowool. It'll be made of titanium, a lightweight and strong metal.

### CAMO CAM:

Our project is about a camouflage camera to prevent burglars from stealing things. If they still steal, then we can catch them on camera. This camera is smaller than most camera's, so it takes up less space. Our special that blends with its surroundings and peels off the camera easily. It caches clear footage of the robbery. It's productive especially if you have many valuables in your household. Make sure you clean it every month or so. Its mobile and can be taken anywhere and it fits in your average handbag. It is a little expensive than regular cameras.

### Food Pix:

People have a hard time choosing the right calories and obesity. Obesity in childhood can cause problems for life. In adults, obesity is linked to increased risk of type 2 diabetes: high blood sugar, high blood pressure, and blood cancer. According to the national health and nutrition examination surveys, approximately 69% of adults are obese and 78 million adults are overweight. Children have become heavier as well. In the past 30 years, childhood obesity has doubled. Therefore, we chose FoodPix for our Exploravision project. It helps you have a happy, healthy diet.

Foodpix are the solution to obesity and health problems. These glasses scan your kitchen or pantry. When they see what ingredients you have, you will tell the glasses how many calories you want to eat and what you feel like eating. It will show you recipes from around the globe for it through the lens piece.