



15 InvenTeams Solving Real-world Problems

Inventions by high school students address problems that affect their **local community, family members, classmates or a community connection.**

Solving Problems in their Community

Bayonne High School
Bayonne, N.J.

System to remotely monitor water quality for the Newark, New Jersey Shipping Channel

Kealakehe High School
Kailua-Kona, Hawaii

Detection and alert system for the blood alcohol content of drivers

Northeast High School
Oakland Park, Fla.

Device to deter mosquitoes from laying eggs in standing water

American Passage at Maria Regina High School
Hartsdale, N.Y.

Device worn by pedestrians to alert drivers of their presence

Battle Creek Math and Science Center
Battle Creek, Mich.

Device to detect and alert drivers of deer in roadways

Solving Problems for Family Members/Classmates

Garey High School
Pomona, Calif.

Device to monitor and trim toe nails for people with diabetic neuropathy

Chattahoochee High School
Johns Creek, Ga.

Device to adapt manual wheelchairs for difficult terrain

Dublin High School
Dublin, Calif.

Device allowing people in wheelchairs participate in ball sports

Dayton High School
Dayton, Ore.

System to monitor and automate home chicken coops

SOAR Early College High School
Lancaster, Calif.

System to alert college students of potential dangers in their proximity

Solving Problems for Community Connections

Frederick County Career and Technology Center
Frederick, Md.

System to remediate well water for Melka Olba School in rural Ethiopia

Fairview High School
Fairview, Pa.

System comprised of a stethoscope and self-cleaning carrying case for clinical settings

Energy Institute High School
Houston, Texas

Device to prevent biodiesel from gelling at low temperatures

Tesla Engineering Charter School
Appleton, Wis.

System to process sustainable cooking fuel for the Village of Hope in Zambia

St. Vrain Valley Schools Innovation Center
Longmont, Colo.

System to alert first responders of people in distress in areas without cell phone reception