

SCREAM—OUTREACH

Summer Camp in Robotics, Engineering and Mathematics

Middle school students attending USA's summer camp, SCREAM, otherwise known as Screammers are introduced to basic engineering and robotics concepts while reinforcing their math and science skills during participation in a series of hands-on projects and industry field trips.

Using a computer-aided design package that brings real-life engineering structures and bridge building problems into the classroom, students are challenged to apply their math and science skills to determine a bridge design that will support the heaviest loads.

The use of lasers and fiber optics in communication equipment is introduced to Screammers. They then investigate how this equipment is used for high tech fingerprint identification.

Following basic instruction on the computer programming requirements for robotics, students design, construct and program robots to perform simple tasks.

Screammers are also provided with opportunities to visit local industries where they can view the application of technology and its importance to the business.