

ROP Fire Science Update



ROP students participate in a fire extinguisher demonstration during Brian Helmick's ROP Fire Science class at **Freedom High**

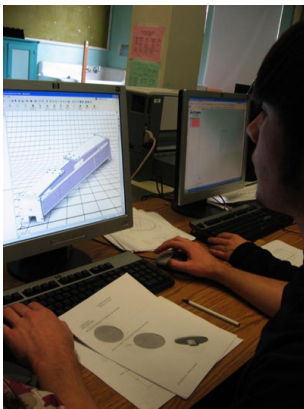
Two students who graduated from Freedom High's very first ROP Fire Science class in 2004 have written to update us on their careers.

"I was just writing to thank you," writes Stephen Ramirez to Battalion Chief Brian Helmick, ROP Instructor at Freedom High. "Taking the ROP class made me really want to pursue a career in the fire service and also gave me the knowledge I needed going into

college. After numerous testing around the state I finally made it! This year I was hired by El Dorado County Fire Protection District as a firefighter-paramedic."

In addition, Michael Dunham, also a graduate from the first ROP Fire Science class at Freedom High, has been hired by the East Contra Costa Fire Protection District, a goal he had back in high school.

CAD Class Helps Telescope Engineers



CAD students work on the Hawaiian telescope project at **John Swett High**

ROP students in Anthony Tammer's CAD class at **John Swett High** are working long-distance on a project for one of the largest telescopes in the world, the Keck twin telescopes in Hawaii. Mr. Tammer worked on one of these telescopes at Lawrence Berkeley Lab, where it was designed and built about 20 years ago, and he thought it would be interesting for his students to see how the telescope was put together. When he contacted the operating engineers

in Hawaii, they asked if his class could help them model some parts that were damaged in an earthquake, so they could understand better how to rework them. Mr. Tammer's CAD students accepted the challenge, and are now taking hand-drawn prints and turning them into solid renditions that can be viewed from any angle and rotated on the screen. This is helpful to the engineers, who will present the class with thank you letters, and the students will be able to cite the work in their resumes.



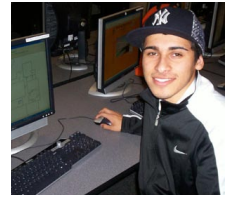
ROP CAD students from **Alhambra High** help with new designs for County Connection bus

Architectural Design and CAD



Contest Winner
Alhambra High

Brian Jenkins, a student in Jeffrey Smith's ROP Architectural Design class at Alhambra High, receives a \$1,000 check for his winning design from the Home Builders Association of Northern California



Arturo Fernandez, in Andreas Kaiser's ROP Architectural Design class at **Pittsburg High**, is looking forward to attending the architectural engineering program at Cal Poly



Maria Elera, Allan Sanchez, Albert Ririe, Jake Johnson, and Katie Worden display their work from Barbara Worden's ROP CAD class at **Freedom High**



Kevin Campbell, in Mike Huntsman's ROP Architectural Design class at **Monte Vista High**, won a first place award at the San Ramon Valley Business Roundtable with his SolidWorks design of a BorgWarner Turbocharger

Go green! **Alhambra High** students from Jeffrey Smith's ROP CAD class worked in collaboration with art students to put ecological designs on a County Connection bus. The County Connection had the bus painted with the new designs, and all students involved in the project got to sign the bus at a ceremony presided over by Martinez Mayor Rob Schroder.