

# S.T.E.A.M...

## in OUSD



Action Labs  
Maker Spaces  
Career Pathways

- ▶ Maker Spaces
- ▶ S.T.E.A.M. Labs



**ELEMENTARY SCHOOLS**



# **MAKER SPACES IN ELEMENTARY**





# MIDDLE SCHOOLS

HEALTH & FITNESS

VIRTUAL ARCHITECTURE

FORENSIC SCIENCE

STRUCTURAL ENGINEERING

FLIGHT TECHNOLOGY

VIDEO PRODUCTION

ENERGY & POWER

RESEARCH & DEVELOPMENT

ELECTRICITY

INFORMATION TECHNOLOGY

ENVIRONMENT & ECOLOGY

MECHANISMS

ALTERNATIVE ENERGY

LASER TECHNOLOGY

AUDIO COMMUNICATIONS

MATERIAL PROCESSING

COMPUTER AIDED DRAFTING (CAD)

PNEUMATICS

DIGITAL MANUFACTURING

DIGITAL MUSIC

COMPUTER GRAPHICS & ANIMATION

ROBOTICS



# **ACTION LABS IN MIDDLE SCHOOL**





**Animal  
Science**

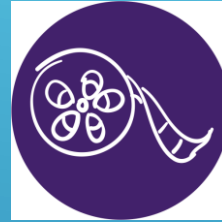


**Patient Care  
Sports Medicine  
Biomedical Sciences**

# HIGH SCHOOL CAREER PATHWAYS



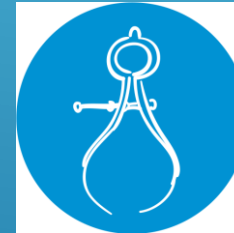
**Aviation  
Automotive**



**Graphic Design  
Animation  
Video Productions  
Video Game Design**



**Business Finance  
International Business**



**Engineering & Design**



**Software & Systems Development  
Robotics**



**Emergency Response  
Public Safety  
Legal Practices**



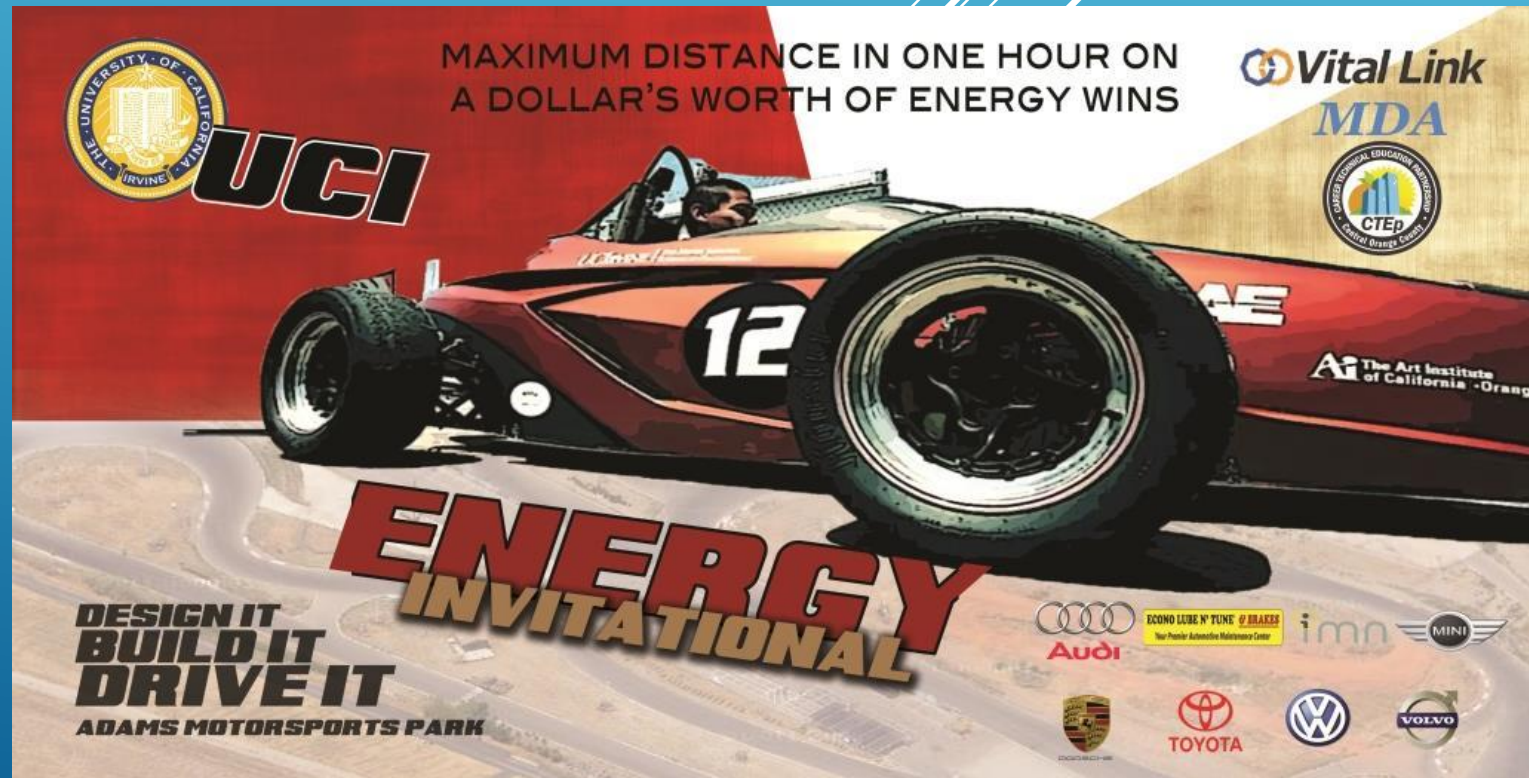
**Entrepreneurship**

What's been happening.....

# CAREER EXPLORATION PROGRAMS

UCI Energy Invitational

Orange HS



# Rescue Robotics: Project Based Learning



Each robot must be safely autonomous



The robot must work in the natural environment w/ varying terrains





Canyon High School

Orange High School

McPherson Magnet

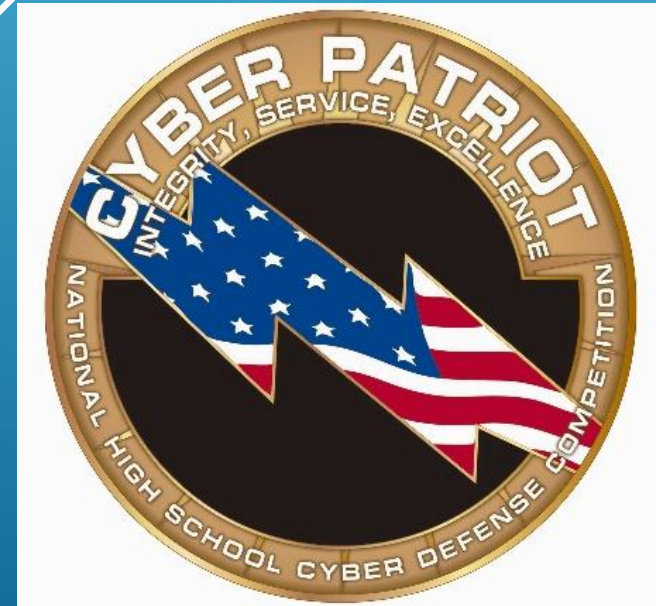
# Computer Programming and Robotics with **MATH**

# C-STEM



# *CyberPatriot*

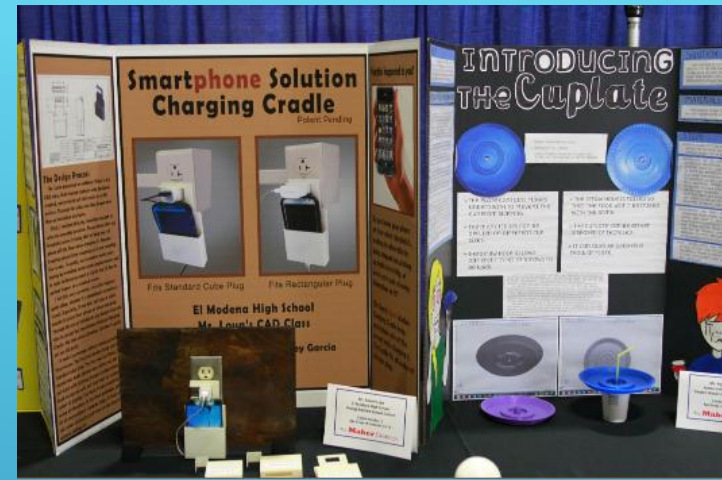
NATIONAL YOUTH CYBER EDUCATION PROGRAM



# ocMaker Challenge

Teams participating in 2015-2016 from:

- Canyon HS
- El Modena HS
- Orange HS
- Villa Park HS



“Design and build,  
or significantly  
repurpose, a  
product that will  
solve a problem,  
need or want.”

-ocMaker Challenge Prompt



# READY



college. career. life.

## THROUGH

