



UC DAVIS SCHOOL OF EDUCATION

PROUDLY PRESENTS

SUMMER FUN WITH A BRAIN



MAKER CAMPS • For young people entering grades 5 - 8

WAKE UP YOUR SUMMER!

Here is your opportunity to tinker, explore, build and create. Here's what you will find at our two convenient locations in **Sacramento** from **8:30 a.m. - 2 p.m.** **\$250 each.**

**West Sacramento
Early College Prep Charter School**
1504 Fallbrook Street, West Sacramento

June 10-14 – Mission to Mars

At this enrichment camp, campers will work in teams to plan a mission to Mars. They will build and launch model rockets, design Mars landers that can successfully handle the impact of a crash landing without damaging the precious cargo, and make their own Mindstorms robots that can autonomously explore the red planet. In addition, campers will take virtual tours of Mars, study past missions and discuss what we can learn from exploring Mars. The week will culminate when campers present their designs to the public (parents and families) and convince them to invest in their ideas.

June 17-21 – Green Energy

Explore, capture and save energy through hands-on investigations and activities. In just one week you will make and race your own solar powered model car, cook food on a solar powered oven that you made, design and test a magnetic levitating train, learn about and create your own bio-fuels and several other learning activities all about alternative forms of energy. You will have an opportunity to innovate creative solutions to challenges both alone and in collaborative teams throughout the week as we discuss some of the biggest energy problems facing our world today.

June 17-21 – Robotics

Tap into imagination and technology! In this robotics adventure, campers will learn the science, design and construction of robots by building super cool, functional robots. Campers will test their software engineering skills by creating, building, testing and prototyping robots. They will explore real world engineering challenges facing today's scientists and designers and develop critical thinking and team – building skills. By the end of the week, robots will be using sensors and navigating mazes in fun and friendly competitions. Look out because robots will soon be roaming the campus!

This program is not affiliated with WUSD.

Hacker Lab

1715 I Street, Sacramento

July 15-19 – 3D Printing & Product Development

Create things to do stuff! This week, campers will find out what it's like to be an engineer, product designer, and community change maker. They'll learn how 3-D printers and CAD software work and work in teams to design tools or toys that make the world a better (more fun) place. By the week's end they'll be able to print these designs into reality. Campers will gain technical skills, investigate people and questions in their communities, and have fun making and innovating. They'll leave inspired and capable of turning ideas into 3-D printed prototypes.

July 22-26 – Mash-Ups Reverse Engineering & Arduino

Exercise for both the engineer and the artist, this week we'll break down appliances, electronics, old toys and everyday objects, then build them back up into hybrids and wholly new creations. Using the Arduino prototyping platform, campers will get exposed to the basics of open source programming, then use sensors, motors, light and sound to create almost any interactive object or environment they can dream up. Campers will practice problem solving, engineering and design skills, and computer science, alongside creativity and teamwork.

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REGISTER TODAY: <http://cru.ucdavis.edu/summercamps>

Questions? apressdawson@ucdavis.edu