



# Coconino High School Robotics

FRC Team 2486 · The CocoNuts · Flagstaff, AZ

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## FOR IMMEDIATE RELEASE

### RE: COCONUTS FIRST ROBOTICS TEAM TO HOST SUMMER CAMP AND COACHES TRAINING FOR FIRST LEGO LEAGUE ROBOTICS

The CocoNuts FIRST Robotics Team of Coconino High School will once again be hosting their “Challenging Outrageous Camp of Nutty Unique Technology and Science” program for students in grades 4<sup>th</sup>-8<sup>th</sup>. This summer camp allows students the opportunity to learn LEGO Mindstorms programming and design and to compete in a FIRST Lego League style tournament at the end of camp. The camp is presented by the student members of the CocoNuts, who serve as instructors and counselors for the students.

COCONUTS 1.0 will take place July 13-17, 2015. Campers will learn basic design, programming, and sensor concepts for LEGO Mindstorms Robots while completing daily mini challenges. Sensors explored will include the light, ultrasonic, and bump sensors. The finale is a **FINAL CHALLENGE** and mini tournament with multiple missions modeled after the FIRST Lego League. Teams will choose a strategy and design their robot to complete as many missions as possible in 2.5 minutes. Parents, family and friends are invited to this exciting event during the last 2 hours of Friday’s session!

COCONUTS 2.0 will take place July 20-24, 2015. Campers will take their knowledge of LEGO NXT to the next level. Topics include advanced design concepts such as gear ratios, center of mass and torque, as well as more complex programming. **Tournament:** Teams will work all week on their robots for the **FINAL CHALLENGE**, which is bigger and tougher than the challenge from COCONUTS 1.0. Teams will choose a strategy and design their robot to complete as many missions as possible in 2.5 minutes. Parents, family and friends are invited to this exciting event during the last 2 hours of Friday’s session in the CHS cafeteria! **Prerequisites:** Campers enrolling in COCONUTS 2.0 need to have completed COCONUTS 1.0, or been an active member of a FIRST Lego League Team.

Each session is 4 hours. Campers choose either the morning (8 am to noon) or afternoon (1 pm to 5 pm) session each week. Cost for each camp is \$125 per camper and can be paid via cash, check or tax credit donation to the CocoNuts. Registration fees include t-shirts and snacks. Proceeds benefit the CocoNuts FIRST Robotics Team.

### Challenging Outrageous Camp of Nutty Unique Technology and Science

**1.0:** July 13 -17, 2015

**2.0:** July 20-24, 2015

**Time:** Morning (8 am to noon) OR Afternoon (1:00 pm to 5:00 pm)

**For:** Students entering grades 4<sup>th</sup>-8<sup>th</sup>

**Where:** Coconino High School Room 705 (upstairs in the science department, 2801 N. Izabel St. Flagstaff, AZ 86004)

**Cost:** \$125 per student

**Register:** <http://www.fusd1robotics.org/camp/>

The CocoNuts will also be hosting a 2-day professional development course for any adults interested in coaching a FIRST Lego League Team. The 2015 Northern Arizona FIRST Lego League Coaches Training will take place July 22-23, 2015 at Coconino High School in Flagstaff, AZ. The training is intended for



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teachers, parents, or other adults who would like to coach a FIRST Lego League team at a school or as a community team, or teachers interested in integrating FLL in the classroom. FIRST Lego League is designed for students in grades 4th-8th.

Participants will:

- \*Build and program LEGO robots
- \*Program robots using sensors
- \*Participate in all aspects of the FLL challenge, including the Project, Core Values, and Robot Game
- \*Compete in a mini tournament
- \*Brainstorm ideas to use FLL or Lego Robotics in the classroom
- \*See real students participating in the activities listed in the training materials
- \*Gain confidence needed to coach a team successfully this season

The cost for the training is \$20 and includes light refreshments and training materials.

Training begins promptly at 8:00 am and concludes at 4:30 pm with a 30 minute lunch break each day. Training will take place upstairs in the science department of Coconino High School.

## 2015 FIRST Lego League Coaches Training

**Date:** July 22-23, 2015

**Time:** 8:00 am to 4:30 pm

**For:** Adults interested in coaching a FIRST Lego League Team

**Where:** Coconino High School Room 701 (upstairs in the science department, 2801 N. Izabel St. Flagstaff, AZ 86004)

**Cost:** \$20 (includes light refreshments and training materials)

**Register:** <http://goo.gl/forms/7TR4rT4LK9>

## About the CocoNuts:

The CocoNuts Robotics Team from Coconino High School in Flagstaff, Arizona, is the first robotics team of its kind in Northern Arizona. Since its founding in 2007, the CocoNuts have been the recipients of such prestigious awards as the Inspire Award, Engineering Inspiration Award and five-time winners of the Regional Chairman's Award. The CocoNuts spend countless hours working in their community to spread the excitement of FIRST Robotics, mentor many of the younger FIRST teams in Flagstaff and the surrounding areas, teach a robotics curriculum at the NAU Summer Enrichment Program, run a summer robotics program for younger students, and host the Northern Arizona FIRST Lego League and Arizona FIRST Tech Challenge Programs. Visit [www.fusd1robotics.org](http://www.fusd1robotics.org) for more information and to get involved.

**GO NUTS!**

## About FIRST<sup>®</sup>

Accomplished inventor [Dean Kamen](#) founded [FIRST<sup>®</sup>](#) (For Inspiration and Recognition of Science and Technology) in 1989 to inspire an appreciation of science and technology in young people. Based in



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Manchester, N.H., *FIRST* designs accessible, innovative programs to build self-confidence, knowledge, and life skills while motivating young people to pursue opportunities in science, technology, and engineering. With support from three out of every five Fortune 500 companies and more than \$14 million in college scholarships, the not-for-profit organization hosts the [FIRST<sup>®</sup> Robotics Competition](#) (FRC<sup>®</sup>) and [FIRST<sup>®</sup> Tech Challenge](#) (FTC<sup>®</sup>) for high-school students, [FIRST<sup>®</sup> LEGO<sup>®</sup> League](#) (FLL<sup>®</sup>) for 9 to 14-year-olds, (9 to 16-year-olds outside the U.S. and Canada) and [Junior FIRST<sup>®</sup> LEGO<sup>®</sup> League](#) (Jr.FLL<sup>™</sup>) for 6 to 9-year-olds. Gracious Professionalism<sup>™</sup> is a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community. To learn more about *FIRST*, go to [www.usfirst.org](http://www.usfirst.org).

## Coaches:

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The CocoNuts are partners with:  
Flagstaff Unified School District #1  
WL Gore and Associates  
Northern Arizona University  
Coconino High School

The CocoNuts are proudly sponsored by:

Northern Arizona FIRST Alliance Partners:  
Phoenix Analysis & Design Technologies  
APS/Phoenix Suns Mini Grant

Northern Arizona FIRST Fanatics:  
GKC Geoscience LLC  
Mr. Steve Sanghi

Friends of Northern Arizona's Future:  
AZ Superbowl Planning Committee STEM Superhero Awards  
Findlay Toyota Flagstaff

And the generous and continuing support of the Flagstaff Community.