



CITRUS CIRCUITS

1400 E. 8th Street
Davis, CA 95616
www.citruscircuits.org

UPCOMING EVENTS

- Stop Build Day
February 21th
- Sponsor Open House
February 25th
- Central Valley Regional
March 10th-12th
- Sacramento Regional
March 23rd-25th

SPONSORSHIP UPDATES

We are proud to recognize our sponsors for the 2017 season! Our sponsors help us fund both our competitive and outreach programs, and we wouldn't be able to make it through the season without them. For more information on becoming a sponsor or supporting the team, please visit www.citruscircuits.org or contact us at frc1678@gmail.com.

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*UCDavis includes the following departments, who each made separate donations:
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EAGLE SCOUT BUILDS NEW FIELD PERIMETER

Thank you Citrus Circuits member, Jon Botting, who created an amazing field perimeter for his Eagle Scout's project. The perimeter he created is a short wooden fence that surrounds our practice space in room M-1. The wooden field perimeter will not only keep students safe but also help us visualize how the perimeter around the real competition field would affect our robot. Jon first got the idea from Steve Harvey, Citrus Circuits leader, and Michael Corsetto, lead technical mentor. For his project, he had to plan the whole design, raise money, and recruit people to help him. Botting had building help from Justice Borchard, Michael Valenzuela, Jeffrey Keller, Devin Castellucci, Avery Phimmasehn, and Aidan Phimmasehn. Not only did he succeed, but he also showed great leadership while completing his project. This was also mentioned in the [Davis Enterprise](#). Great job, Jon!



MENTOR INTERVIEW WITH JACKSON DURHAM

Q: What made you want to come and mentor us after you graduated?

A: I was in town and I just wanted to stay with the team because it changed my perspective on robotics and media and has been a very fun experience for the past three years, so I wanted to continue.

Q: How has the team impacted your life?

A: It has impacted my life by giving me something to do after school and something to motivate myself to do. There was a time where I just didn't have anything to do and I was bored and listless. When I joined this really cool team, it impacted me positively. It was difficult to get used to everything, but once I got used to things and I went through a build season or two it really changed me as a person.

Q: What have you learned so far from mentoring?

A: I've learned that it's different from being a student because instead of asking the questions, you're giving the answers.

Q: What advice do you have for freshmen or new members?

A: Make sure you know your deadlines and stick to them as much as possible, because we only have six weeks to build the robot, and it's hard if you can't get work done.



SPONSORS INVITED TO OPEN HOUSE ON FEBRUARY 25

On February 25, we will be hosting our annual Sponsor Open House! It will be from 10 a.m. to 12 p.m. in our facilities at Davis Senior High School. The open house will include breakfast, student-led tours, and a demonstration of our 2017 robot. Interested sponsors are requested to RSVP to frc1678@gmail.com by February 18th.

THANK YOU TO THE PARENT BUILD TEAM

We would like to thank Daniel Hahn, Mark Moeller, Paul Brandy, Sean Liu, Junhui Huang, David Solomon, Jan Wright, and Buck Cutting for constructing field elements for us. They spent most of January 7 constructing incredible wooden elements that represent the structures in the STEAMWORKS game for our team to practice on. We are currently using the structures to represent the practice field for competitions.



PAST STUDENTS, FUTURE MENTORS

left: Devin Castelli with team 5310 Eagles Apex at 2014 Championship

Many of our students that have graduated pass on their years of experience by mentoring our team. For example, **Devin Castellucci** spends most of his time working as a Mechanical Engineer at Greenbotics/SunPower and as lead fabrication mentor of our team. He graduated from DHS after being on the team from 2006-2007. For Devin, some challenging aspects as a mentor include getting enough sleep and preventing student injuries by mechanical machines. Devin claims that he had no engineering experience before and learned most of his engineering techniques from Citrus Circus. Devin also helps other teams at competitions and during the off-season.

Anthony Diaz-Vigil has been a machinist and our mechanical fabrication mentor since 2012 after graduating from DHS in 2011. Because the team was much smaller, he worked on all aspects of the robot and was the robot driver in 2011, which was the first year our team made it to Championships. Anthony helps teach students how to use the machines in the mechanical room and works with the prototyping groups. He also helps rookie teams during competitions, for example 5190 in the 2014 World Championship when their robot's intake had broken down. For more information on Anthony, go check out our March Newsletter from 2016.



Jasmine Zhou was the lead robot programmer as well as our team's captain in 2014. The team won three Innovation and Control awards for her programming in that year. graduating from DHS, she now attends UC Davis for an electrical engineering major and mentors team 1678 in her free time.

Donald Pinckney graduated from DHS in 2014 after participating on the team from 2012-2014. He worked on the robot programming subteam and helped create the app programming subteam along with the scouting app. He then moved on to mentoring our team while going to college at UC Davis and double majoring in Computer Science and Math. Despite a heavy class workload, Donald helps with our team and has set up a successful teaching process for our rookie programmers. He is also an intern at Apple and an engineering intern at UC Davis.



left to right: Takumi Kawaguchi, Michael Corsetto, Megan Yamoah, and Jasmine Zhou