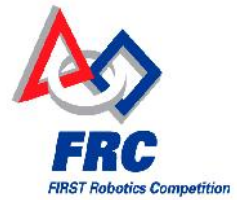




# BCHS "High Scalers" Robotics Team

FIRST Robotics - 2020 Season (Our 12<sup>th</sup> Year)



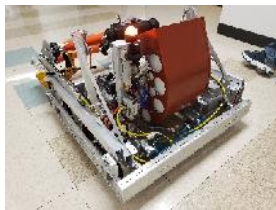
## Families, Friends, and Sponsors... Season Update 02-24-2020:

The 2020 Robotics season is well underway, our 12<sup>th</sup> year building a robot and competing in the FIRST Robotics Competition. We have many new students who are undertaking the challenges for this years' competition. This will be a another challenging and rewarding year for the team.



The team attended the kickoff at Switch, the primary sponsor for the Las Vegas Regional, where we watched the national broadcast that revealed this years' competition "INFINITE RECHARGE", a "Star Wars" sponsored game theme. As in past years, the competition will consist of two three team alliances. At the start of the match, the robot is required to operate in an automatic "autonomous" mode to move and process "Energy Cells" into goals, which are yellow foam-covered

balls, for points. After the autonomous mode team will step up and drive their robots in tele-operated mode and continue to shoot the energy cells into goals and will then score additional points by processing and setting a large color coded wheel to a specific color position, the exact position is not disclosed until late in the match. Then near the end of



the match the robot must hook itself onto a large suspended teeter totter type balance beams along with alliance members robots, and lift the robot off the competition floor. Teams must position the robots to balance the beam for extra points. The opponent teams will be performing the same tasks and will be playing defense to try to prevent you from accomplishing the goals. You can click on the following link to view a game animation that better explains the



game; <https://www.youtube.com/watch?v=gmiYWTmFRVE>

This year's game will be challenging and we are working hard to complete the robot before time for our first competition. We are excited about competing this year and are hoping to repeat our success of previous years. This year the team will compete again at both the **Arizona North Regional at Northern Arizona University Flagstaff, AZ, March 12<sup>th</sup>-14<sup>th</sup>, 2020**, and the **Las Vegas Regional at the Thomas and Mack center on the UNLV campus, March 26<sup>th</sup>-28<sup>th</sup>, 2020**. The events are open to the public and free to attend. We invite and encourage you to visit us at the competitions and also to drop by our build room at the high school, anytime as we're there working most every weeknight starting at 6:00 pm, and also on Saturdays.



**We sincerely thank all our sponsors, friends, and families for the tremendous support of this program. How you can help; our mentors are volunteers, and all funding for the build, event registration, and various travel expenses are paid for from the donations of our sponsors, no donation is too small and very much appreciated. The great experience and opportunities our students receive from participation in the FIRST robotics program would not be possible without this very generous and gracious community support.**

**Many Thanks and Best Regards,**

**The BCBS 'High Scalers' Robotics Team**

The Robotics team is an extracurricular activity open to all Boulder City High School students providing a safe, well-mentored hands-on arena for the application of the science, technology, engineering and mathematics (STEM) principles so valuable to our country's future. For more information about the Boulder City High School robotics team, visit our website at <http://bchsrobotics.com> or contact:

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The Boulder City High School Robotics Team, the "High Scalers" builds a robot every year and competes against local, national and international teams as part of the FIRST Robotics program. The FIRST organization is nonprofit and is designed to develop the students' interest in science and technology while promoting good sportsmanship in a competitive environment. "It's not just about robots," said FIRST founder Dean Kamen. "It's about building self-confidence, respect and important relationships with people who invent new technologies to make a better future." FIRST inspires in young people, their schools and communities an appreciation of science and technology; mastering these can enrich the lives of all. Visit the FIRST Web site at <http://www.firstinspires.org/robotics/frc> for more information.

# Our Robots from the Past 11 Years



Now Being  
Designed  
And  
Built

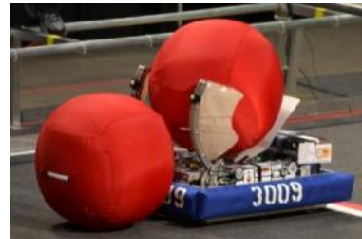


2020

2019

2018

2017

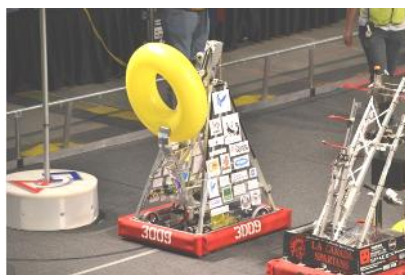


2016

2015

2014

2013



2012

2011

2010

2009