

Waiakea High Robotics – What We Do

2016

- May 6, 2016 Robotic presentation to U.S. Senator Brian Shatz. Demonstrated FIRST, Microbots, outreach program and real world engineering to our visiting Senator.
- Mar 24-26, 2016 Sacramento Regional of FIRST robotics. Ended 6-2 in seeding rounds, ranked 9th. 6th seed alliance captain with 2073 and 2141. Lost in semi-finals.
- Mar 3, 2016 Nagaoka High School visit. Ten students and 3 teachers spent the afternoon doing brushbots with our students.
- Feb 26, 2016 Club does FIRST robotics demonstrations for Hawaiian Electric company President and executives. Three of this years mentors are WHS Alumni and Engineers for Hawaiian Electric.
- Feb 19, 2016 Received word that Waiakea Robotics will be part of a grant to study volcanic Emissions: Project: Creating Engaged STEM Pathways for Hawaii Underrepresented Students from High School to College Degree Completion (HESTEMP)
Sponsor: NATIONAL AERONAUT & SPACE ADM
- Feb 19, 2016 Final round of Cyber Patriot Platinum round (top 300 teams out of over 3000):
Girls team has the 2nd best Cisco score in the Country!
Final rankings: Murphy 08-0505 # 54 330.64
Olive 08-0523 #71 322.72
- Jan 10, 2016 Hilo Zonta Club recognition dinner – WHS Robotics is recognized for its efforts in spreading STEM to young ladies with our Girls Engineering Day.
- Jan 9-Feb 26, 2016 FIRST robotics build season. We will be competing in the Sacramento Regional on March 23-25.
- Jan 8, 2016 Seisho High School visit. Eight students from Japan's Seisho Super Science School visited WHS Robotics and spent the afternoon doing robotics, brushbots with the club.
- Jan 2, 2016 WHS Robotics does a "rocket" merit badge workshop for 10 boy scouts.

2015

- Dec 4, 2015 2nd round of Cyber Patriot competition. Team Olive and Team Murphy win 2nd and 3rd in the State and advance to the Platinum rounds with 300 of the top teams in the U.S.
- Nov 22, 2015 24th annual International Microrobot contest held at Nagoya University in Japan. This years team captured 1st, 2nd and 3rd in the cubic inch auto and remote Control categories. We also captured two second place finishes in the cubic Centimeter category and won a "best design" award in that category too.
- Nov 21, 2015 East Hawaii VEX tournament. 1056A knocked out in semifinals, 1056B knocked out in finals. A team qualified for States through skills score.

- Nov 14, 2015 Cyber Patriot – First round: we have two teams in this years Final results out of the field of 3,483 teams have Waiakea in 12th and 23rd place nationally.
- Nov 1, 2015 Ritsumeikan Super Science Fair – Sent five students to represent WHS and the U.S. in this International Science Fair which brings 40 schools from 19 countries Together. They presented their project on “Engineering a quadcopter capture/release mechanism” in this week long event and did science workshops and tours.
- Oct 10, 2015 3rd Annual Girls Engineering Day – 30 girls in grades 4-8th spent the day with their Parent doing renewable energy themed projects: Solar Cars, Inexhaustible bottle, Windmill and Ecolanterns. Listen to talks by Dr. Cooksey from UH Astronomy department.
- Sept 19, 2015 Hawaii Island VEX tournament. Two teams, 1056A knocked out in quarterfinals.
- July 7-11, 2015 10th annual Hawaii Island Robotics Academy. We had 50 students in grades 3-6th spend the week doing robotics, NXT and VEX, as well as building and playing with Letry robot kits.
- May 7, 2015 Pacific Aquaculture Research Center – ROV project. Students did final tests on ROV built by themselves meant to pick up oysters, clean tanks, clean oyster cages and more.
- March 6-9, 2015 Ritsumeikan Visit – Took 9 students and 1 teacher to Volcano, Mauna Kea and Kona on their annual visit from Ritsumeikan High in Kyoto, Japan to our school. Home stayed them for three nights.
- Feb 5, 2015 Imiloa Open House: Opening reception for TMT Master Plan. 3 students helped Host the event.
- Jan 30, – April UAV project with UH-Hilo. WHS Robotics is developing a device to deliver and An instrument by quadcopter into environmentally sensitive areas.
- Jan 17, 2015 CyberPatriot: Regional Round – Scored 203 (not including cisco) made 28th place Out of 1400 teams in the contest.
- Jan 12, 2015 Zonta club recognition dinner: received awards for girls engineering day
- Jan 8, 2015 Seisho High School visit – Did brushbots with 8 students from Japan visiting our school as a super science school.

2014

- Dec 5, 2014 CyberPatriot: State/Platinum Round – One team finishes 3rd in State qualifying for the regional round. 2nd team finished around 10th.
- Nov 22, 2014 CyberPatriot: Round 2 – 3 images Perfect scores on two, 80 on Windows 8
- Nov 16, 2014 American School in Japan VEX robotics tournament. Two teams: Tournament champion, quarterfinalists in tournament. Best design award.

- Nov 9-13, 2014 Ritsumeikan Super Science Fair – Kyoto, Japan. Took five girls who entered a project called “spectral analysis of beach sand layers”. Taught teacher workshop on discrepant events.
- Nov 9-10, 2014 International Micro robot contest – Nagoya University, Japan. Cubic CC category: Best Design award, 2nd place in mountain climbing. Cubic inch Auto: Two tied for first and one for third. Set tourney records under 4 seconds. In cubic Inch controlled: First and third place.
- Sept 20, 2014 VEX Big Island Tourney: Seeded 3rd and 18th . Knocked out in quarters and semi finals.
- Oct 25, 2014 CyberPatriot:Round 1: Both teams score perfect 200 scores on both systems
- October 4, 2014 2nd annual Amelia Earhart Girls Engineering Day. Guest speakers with gliders and robotics for 37 young ladies in grades 3-8 with a parent. Sponsored by the Hilo Zonta club.
- July 20-27, 2014 Hosted 10 students and one teacher from Ritsumeikan High School in Kyoto, Japan. Did robotics and outdoor adventures with the Rits and WHS students.
- July 8-12, 2014 9th annual Hawaii Island Robotics Academy camp for students in grades 3-7. 54 students enjoyed a week-long 5 hours a day robotics camp run by WHS Robotic teachers and students.
- May 27, 2014 Keaau Elementary – did science demonstrations and rocket activity for 46 2nd Graders. Promoted engineering.
- April 23-26, 2014 VEX Robotics World Championships, Anaheim, California. Team makes it to Quarterfinals of their division after being picked up by the 5th seed. They lose To the eventual overall finalist team. Finished one of the top 100 bots out of the 5000+ teams in the World.
- Mar 11, 2014 Tsuru Super Science School visit to WHS. Students demonstrated robotics program for this visit by 21 students from Tsuru super science school in Japan.
- Mar 7, 2014 Iiyama Kita School visit. Did brushbots and robot demo’s for their ten students And two teachers who visited us for the second year. WHS students also taught them Hula and Were invited to HCC for closing dinner ceremony.
- Feb 22, 2014 Team Murphy and Team Olive finish 2nd and 3rd in the State rounds of cyber-patriot, the highest finishing public schools, behind Punahou.
- Jan 25, 2014 Astronaut Ellison Onizuka Day – UH, Hilo. Did the closing demonstrations again Students did a fundraiser by ordering and delivering volunteer lunches.
- Jan 23, 2014 The Waiakea Pack 19 cubscouts WEBELOS did a 2-hour science workshop to earn their scientist badge for the arrow of light. 12 scouts watched demo’s and built and launched alka rockets. Students assisted with the event.
- Jan 13, 2014 Zonta Recognition Dinner – Robotics club was recognized for outstanding work in Promoting women in science with our Girls engineering day which brought 40 girls and their parents together for a one day workshop building robots and

building and launching model rockets. Received pledge to fund it again next year.

Jan 8, 2014 Seisho High School visit to Waiakea. Toured our robotics program and did Brushbots (racing and sumo) with them. Visit by 8 students and 3 teachers.

2013

Dec 20-21, 2013 VEX State Tournament – McKinley High School: Two teams qualified. Finish Seeded 3rd and 4th out of 40 teams. One loses to the other in the semi-finals And the second loses in the finals but qualifies for the World championships. WHS Robotics mentors our middle school team which also qualified for Worlds.

Dec 6-8, 2013 Cyber Patriot Round Two. Two teams score near perfects on two systems but Ubuntu proves too tough again and teams miss cut-off for final rounds.

Nov 30, 2013 Big Island VEX League Finals Tournament – Kohala: One quarterfinalist, one Semi-finalist One tournament Champion. Also win both Robot skills and programming Awards and the sportsmanship award. Two teams now have State slots.

Nov 16, 2013 Cyber Patriot – Round 1: two teams from WHS this year. Both score perfect 100's on one challenge and 90/100 on the second. Both teams ranked in the top 20 out of 100's of teams from across the U.S.

Nov 15-16, 2013 American School in Japan VEX Tournament. 2 teams compete where one Finishes as quarterfinalist, the other is semi-finalist and design award winner.

Nov 10-11, 2013 International Micro robot Contest – Nagoya University, Japan: 1st and 2nd in the Cubic-Inch remote category, 1st in the Cubic-Centimeter Hill climb, 3rd in the Cubic-Inch autonomous, 2nd place Biped category, Good Design award for the Cubic-Centimeter category. First time we won anything In the Cubic-CC hill climb category.

Nov 9, 2013 VEX League Tournament – Kealakehe High : Only two teams compete in this one as the other two are in Japan for another contest. Round ¾ in the Big Island VEX league.

Nov 7-18, 2013 Ritsumeikan Super Science Fair – Kyoto, Japan: 5 Students participated in this week long activity drawing 300 students from 19 countries. Students present their project “Using spectroscopy to analyze lava flows” and do cultural presentation.

Oct 11-12, 2013 Big Island VEX tournament – Sponsored and run by WHS robotics. We had 11 Teams from Oahu, 21 from Big Island compete in this tournament. We finished Seeded 1st, 6th and 14th out of 32. Tournament Champion, Tournament Finalist And build award.

Oct. 4, 2013 Girls Engineering Day – We conducted a workshop where 40 girls with their Parents built robots and built and launched model rockets. Several WHS Alumni female engineers and current students do talks to encourage young girls (grades 3-8) to consider STEM fields as a career.

- Sept 28, 2013 HELCo Energy day at the Prince Kuhio Plaza. We demonstrated our robotic Programs (underwater, micro, VEX, brushbots and FIRST) to the community at a robotics booth in the mall over a five hour period.
- Sept 14, 2013 VEX League Tournament – Hilo High
- Aug 24, 2013 VEX League tournament – Honokaa High
- July 23-26,2013 Engineering/Astronomy Summit – We helped to run and participate in the inaugural event which brought students to Hilo from China, Japan, India and Canada to share in learning science and culture. WHS had 7 students and 2 teachers participate. Seven students from Japan and China did a 2-night home stay with Waiakea families after the event.
- July 9-13 8th annual HIRA (Hawaii Island Robotics Academy) Robotics camp taught by WHS robotics for 72 3rd-8th grade students. Full enrollment with a waiting list. Morning program, grades 4-6, do VEX, Lego NXT and rotate into a class building Ecolanterns, Chokomacar line tracking robots and push button robots. Advanced class, grades 6-8, do Ecolanterns, Chokomacar, Push button robots, Programmable robots, Walking robot
- June 15, 2013 WHS Foundation / Robotics Fundraiser – 10 companies purchased a Bipedal Robot to compete in sumo and robot soccer at Prince Kuhio Plaza.
- Apr 25, 2013 Brushbot Robotic Night at Keaau Elementary – did robotic demonstrations and Racing brushbot workshop for 60 Parent/child teams at Keaau El.
- Apr 15-22, 2013 VEX Worlds – 3 teams qualified and participated in this tournament in Anaheim, California. All three teams end seeding with winning records. All three teams picked up for Eliminations. Nick as an 8th seed, Abe and Kenneth as 5th seeds. Nick and Kenneth knocked off in division quarterfinals. Abe makes it to Semifinals. Nick wins a judges award. Only 5/25 teams from Hawaii make it to The elimination round....3 are from Waiakea!
- Feb 27, 2013 Ran a parent/student workshop with brushbots for Kamehameha Keaau Campus Elementary school. Final count was 240 students and parents. We Demonstrated FIRST, Microbots and VEX robotics and held brushbot races After showing them how to build them.
- Feb 22-24, 2013 Pan Pacific VEX tournament – Finished tied for first in seeding 7-1 record, 6th Seed, 1st pick of 2nd place alliance. 1st place winner out of 104 teams. Waiakea plays last two games in the best of three, set high score for the Entire tournament of 254 points
- Feb 22, 2013 Hosted SLC consortium of schools at WHS. We demonstrated our robotic Program to the visitors from the consortium schools: Kaimuki, Roosevelt, Kauai, Waipahu. Gave history of WHS Robotics and how we have been able to sustain Our program for the last 11 years.
- Feb 14, 2013 Ran a one-day robotic workshop using Letry Robots with 14 students visiting From Iiyama Kita in Nagano, Japan.
- Feb 2, 2013 Cyber-Patriot Consolation round. All three teams score two 100 point rounds

and one 90 point on the three systems. After deductions the results for our top two teams were: ranked 3rd and 4th out of 180 teams in the consolation rounds.

- Jan 12, 2013 Hosted 8 students from Seisho High School, Nara, Japan for a ½ day demonstration of robotics and brushbot workshops.
- Jan 10, 2013 Hosted 31 students from Sapporo Nichidai High School. Demonstrated robotic Program and ran a 1 hour brushbot workshop with them.

2012

- Dec 15, 2012 Big Island VEX League Tournament Finals – we hosted and ran the finals for the 25 teams in this tournament at our school. Waiakea finished 2nd, 3rd and 7th in seeding and after two WHS teams picked each other for the elims we finished as tournament champions and semi-finalists.
- Dec 8, 2012 Cyber-Patriot round II: After all three teams scored an 80/100 in the first round, Which did not place us very high, all three teams score 190/200 on the second round which puts them among the highest scoring in the United States. We missed the Final rounds by 10 points (one more defect to find).
- Dec 1, 2012 2nd Big Island VEX league tournament – Held at Kohala High School – finished seeded 1st, 3rd and 9th out of 25 teams.
- Nov 17, 2012 Cyber-Patriot Round 1: Three teams of WHS students entered in Cyber Patriot All three teams score 80/100. Not our best showing after acing the first two rounds last year.
- Nov 10-14, 2012 Ritsumeikan Super Science Fair 2012, Kyoto, Japan – Did Letry Robot workshop for 35 students from over 19 counties. Ran the 2nd Brushbot Olympics including 300 students from over 19 countries competing in racing, sumo and bowling. Our fourth time participating.
- Nov 3-4, 2012 21st International MicroRobot Contest, Nagoya University, Japan: 1st and 2nd in The hardest Cubic Inch autonomous Category. 2nd and 3rd in the cubic Centimeter category, 1st and 3rd in the cubic inch remote control category, Best Performance, Best Design in the Bipedal Category. 130 robot entries, 7 countries.
- Oct 27, 2012 Lacy Veach Day – Punahou School, Honolulu. Did the closing demonstrations For this free science day. Met with teachers to do brushbot outreach.
- Oct 27, 2012 WHS Robotics ran a mini VEX tournament at the Hawaii Business fair (Honokaa, Hilo, Homeschool team, WHS)
- Oct 25, 2012 WHS Robotics club presentation to the Hawaii Business Network
- Oct 20, 2012 Big Island VEX tournament – Placed 1st, 4th and 5th in seeding, Tournament champion, runner up and quarterfinalist. Design Award. 30 teams compete at Kealakehe High.
- Oct 13, 2012 Big Island VEX league – held at Honokaa. 26 Big Island teams competing at 3 site Over two months. Finals here at Waiakea in December.

- Sept/Oct Mentored Home school team and 3 new teams from St. Joseph's school in VEX.
- Sept 29, 2012 4th Annual Brushbot Tournament, held at UCB 100 UH Hilo. 9 schools, 14 teams over 100 students participate. Sponsored and run by WHS robotics.
- Aug 25-26th, 2012 Bipedal Robotics Workshop. Hilo Community College, (32 teachers) taught teachers how to build and program Version II of bipedal robot developed by WHS Robotics. Did first Bipedal soccer tournament with robots controlled by Android phone or TV remote.
- July 22-29, 2012 Host/Homestay 9 students and two teachers from Ritsumeikan School in Japan. Did robotics, Astronomy, Geology and more while they visited for the week.
- July 10-14, 2012 7th annual HIRA Robotics Camp for 3rd-8th grade. 72 students and wait list For the program that taught VEX, Lego NXT and more
- May 5, 2012 Brushbot/Letry Workshop - Honolulu Community College (60 teachers registered) Taught teachers how to use Letry and STEM in their classrooms
- April 26, 2012 Robotics PTSA – Waiakea Elementary – Demonstrated robotic programs in an evening PTSA meeting. Drew approximately 100 people.
- Mar 22-24, 2012 FIRST Robotics 2012 Honolulu Regional. 2nd seed, 2nd place alliance, creativity award, semifinalist.
- March 2, 2012 Met with Principal from St. Joseph School in our robotics room to review robotic programs and to help her get one started at her school. Students did demonstrations of the various programs and promised support.
- Feb-March, 2012 Conducted 6 lessons for 4th graders at Waiakea Elementary School on Letry Robots.
- January 28, 2012: Onizuka Day 2012: UH Hilo – Conducted Teacher workshop (13 teachers) Letry Robots
- Jan-March, 2012: FIRST Robotics 2012 – Build Season, Honolulu Regional

2011

- Dec 1-2, 2011: Pan Pacific VEX tournament – seeded 11, 31,90 out of 104. Quarterfinalist, Judges award.
- Nov 12-16, 2011: Ritsumeikan Super Science Fair – week long experience with students from 19 countries held in Japan, our third time, Conducted the Worlds First Brushbot Olympics with Figure Skating, Sumo and Racing with students from 19 countries and a separate Letry robot workshop for students.
- Nov-Jan, 2011/12: CyberPatriot - Two teams made it to round three (final round of 32 in the Nation, only Hawaii teams left). Top Ten in cumulative scores for two teams in the Nation, missed cutoff for finals by 3 on Ubuntu server.

- Nov 6, 2011: International Microrobot Contest, Nagoya Japan – Only two teams entered this year. We won the one cubic inch category again this year, 5th time entering
- Oct 7-8, 2011: Big Island VEX robotics Tournament – WHS Robotics hosted and ran our third Big Island Tournament which drew 34 teams from all over the State. Quarterfinalist, Finalist, 3rd place skills
- Oct 23, 2011: Letry/Brushbot Workshop for teachers at the Lacy Veach Day at Punahou – (did a workshop for 20 teachers on Oahu in Letry Robots)
- Sept. 23, 2011: Kealakehe VEX tournament – 1st seeding, tournament Champion, Excellence award.
- Sept 17, 2011: 3rd annual Letry/Brushbot tournament – hosted and ran our third tournament drawing 14 elementary schools this year at Imiloa. Teams competed in Sumo brushbots, racing brushbots, open category and Letry Robot Relay.
- Sept 10, 2011: Letry/Brushbot workshop - trained 20 Big Island teachers how to build and use robots in a day long workshop at UH-Hilo
- Sept – Oct, 2012: Mentored first year FLL team from Keaau Elementary who eventually made it to the State tournament and did very well. WHS students helped them with design, strategy and programming.
- Aug 27-8, 2011: Bipedal Robotic Conference - two day workshop we did at the Honolulu Convention Center for 60 participants. Held first Bipedal robot race in Hawaii.
- July 16, 2011 FIRST robotics Workshop - Six Big Island schools in FIRST robotics came to WHS for training in this one day workshop.
- July 5-9, 2011 6th Annual HIRA - Week long summer robotics camp for 3rd-8th grades which drew 74 students. Classes taught by WHS robotics students and mentors
- May 17, 2011 Brushbot Festival - had 50 students and parents in this one day workshop at Imiloa taught by WHS robotic students and mentors.
- May 14, 2011 VEX robotics workshop - did a one day workshop for 11 schools on how to do VEX robotics at Waiakea High.
- May 7, 2011 Botball Hawaii Regional – Two teams entered. Awards: Alliance Champions, 2nd Place alliance, Cooperation award
- April 26-9, 2011 FIRST Robotics World Championship – St. Louis, Missouri: WHS sent a team that made it to the quarterfinals on the Galileo field after finishing seeded 12th out of 86 teams. Highest placing Hawaii team.
- April 16, 2011 Big Island Underwater Robotic Competition – 1st Place, Qualified for Worlds
- April 9, 2011 Molokai Brushbot Workshop - did a teacher workshop and parent/child Workshop (approx 35 parent/Child teams) with racing and sumo brushbot competition on Molokai
- April 6, 2011 Hawaii County Council Demonstration/Recognition – Whole team

demonstrated during a council meeting what we do in robotics and received recognition from the County of Hawaii

- April 12-19, 2011 VEX World Championships - sent two teams to Orlando, Florida to participate in the World tournament.
- Mar 24-26, 2011 FIRST robotics Honolulu Regional - won engineering inspiration / finalist / Innovation in control award in this tournament, qualified for Worlds.
- March 5, 2011 Kauai Brushbot Workshop – WHS robotics students and mentors did a one day workshop for 20 teachers at Kauai community college on brushbots and Letry robots.
- Feb 26, 2011 Maui Brushbot Workshop - WHS robotics students and mentors did a one day workshop for 16 teachers on Maui on brushbots and Letry robots.
- Feb 12, 2011 Oahu Brushbot Workshop - WHS robotics students and mentors did a one day workshop for 50 teachers on Oahu on brushbots and Letry robots.
- Jan 22, 2011 Onizuka day Workshop - WHS robotics students and mentors did a one day workshop for 20 teachers on Big Island on brushbots and Letry robots.
- Jan-March 2011 FIRST robotics build season - Jan (six week build window for the robot)

2010

- Dec 11, 2010 2nd Annual Brushbot Tournament held at Imiloa. 14 Elementary Schools participate in an all day event which included Letry Robot Relay and Racing/Sumo Brushbot tournament run by WHS robotic students and mentors.
- Dec 3-4, 2010 Pan Pacific VEX tournament – Largest tournament held outside of the World Championships, 118 teams from China, Hawaii and the Mainland. Finished 1st, 9th and 11th in seeding, 1 semifinalist, 2 finalist teams, Excellence award
- Nov 20, 2010 Big Island VEX tournament – Run by WHS robotics at Imiloa. 24 teams from Big Island and Oahu. Finished 1st & 3rd in seeding. Semifinalist, Excellence Award.
- Nov 11, 2010 International Microrobot Contest – Nagoya University, Japan – 2nd and 3rd in 1 cubic inch autonomous category, 3rd in cubic inch remote control category, 7th, 8th and 9th in cubic centimeter category.
- Nov 10, 2010 American School in Japan VEX tournament – Run by WHS robotics students

and mentors in Tokyo, Japan. 2nd, 4th and 5th in seeding, 2 semi-finalist teams, 1 tournament champion.

- Nov 1-7, 2010 Ritsumeikan Super Science Fair – Kyoto, Japan. Did Letry Robot workshop for 35 students from over 19 countries. 5 WHS Robotic students participate
- Oct 23, 2010 WHS robotic students and mentors hosted and ran a day-long workshop for 10 elementary and middle schools to teach them how to make brushbots and letry robots.
- Oct 16, 2010 Lacy Veach Day Presentations, Punahou School
- Sept 21, 2010 Lions club Presentation – Michelle’s Hale. Demonstrated all the robotic programs we do at a Lions club meeting.
- Aug-Oct, 2010 Mentored 4 FIRST LegoLeague teams at Waiakea and Waiakea Waena Elementary schools
- July 21-27, 2010 Hosted 9 students from Ritsumeikan High School in Japan. Taught them robotics and visited Mauna Kea and Volcano during their week-long visit.
- July 16-19, 2010 Hosted and ran the first International Microrobot conference held at Imiloa and Subaru Telescope. Three day conference that drew 60 people and culminated in cubic centimeter contest and cubic inch soccer contest. WHS Mentors and Students taught the sessions.
- June 14-18, 2010 Hawaii Island Robotics Academy – 5th Annual. 48 3rd-6th graders and 24 6-8th graders do a one week robotics camp taught by WHS robotics students and mentors.
- May 1, 2010 Botball Hawaii – Honolulu Convention Center: Finished 3rd seeding, 3rd place tournament. Of 38 teams, highest finishing public school in Hawaii.
- Mar 25-27, 2010 FIRST robotics Honolulu Regional – Quarterfinalist
- Jan-Mar 2010 FIRST Robotics – Hawaii regional Build Season.
- Jan 23, 2010 Ellison Onizuka day – UH Hilo: Club had a booth where we did demo’s on Microbots and the closing science demonstration show.

2009

- Nov 8, 2009 Nagoya University International Micro robot contest.
- Oct 10, 2009 First annual TMT Hawaii brushbot invitational tournament at Imiloa
- August 15, 2009 Micro robot workshop held at Imiloa and Subaru
- June 15-19, 2009 4th annual HIRA summer robotics camp

May 16, 2009 Micro robot workshop – Waiakea High

May 9, 2009 Toothbrush robot workshop – Pearl City Elem

Our program started in 2002-3 with FIRST robotics in Seattle Washington.

*Note: this list does not include several demonstrations to Rotary clubs done in 2010-11, school demonstrations and several smaller events attended by WHS robotics, year round mentorship by WHS students for several Big Island VEX teams who come over to our robotics room to use our field and to get help on their programming and more.

List of Accomplishments by school years:

2002-03 – Finished seeded 13th in Pacific Northwest Regional of FIRST robotics, Seattle, Washington: Quarterfinalist in eliminations

2003-04 – Finished seeded 27th in the Pacific Northwest Regional of FIRST robotics, Portland Oregon: Not picked up in eliminations (worst finish ever)

2004-05 - 2nd Place in State in the Hawaii Underwater Robotic Contest (HURC)
1st place seeding, 2nd place overall Botball State tournament

2005-06 – 3rd place and Tournament champion Hawaii Underwater Robotics Contest
1st place seeding, 1st place documentation, 1st place tournament 1st place overall Botball State championship.

- 2006-07 – 1st place seeding, 3rd place tournament Botball State championship
 4th place overall at Botball World Championships
 FIRST robotics – Rookie all-star, Silicon Valley Regional.
 Semi-finalist, team spirit award Honolulu regional. Finished 17th
 Seed out of 86 teams in our division at Worlds in Atlanta Georgia.
- 2007-08 – 1st place in autonomous cubic inch robot International Micro robot contest at
 Nagoya University, Japan.
 FIRST Robotics – Silicon Valley 2nd seed, Regional Finalist, Honolulu
 Regional Semi-finalist, Engineering inspiration award, spirit award. Finish seeded
 14th in Worlds out of 86 in our division in Atlanta, Georgia.
 Botball – finished 3rd and 5th in seeding in State tournament
- 2008-09 – International Micro robot contest – 3rd place in Autonomous, 2nd place in cubic
 Centimeter category.
 VEX robotics – Big Island Tourney Champ, Semi-Finalist at Pan Pacific International
 tourney
- 2009-10 FIRST robotics Honolulu Regional – Quarterfinalist
 Botball Hawaii – Honolulu Convention Center: Finished 3rd seeding, 3rd
 place tournament. Of 38 teams, highest finishing public school in Hawaii
 VEX: Pan Pacific VEX tournament – Largest tournament held outside of the World
 Championships, 118 teams from China, Hawaii and the Mainland. Finished
 1st, 9th and 11th in seeding, 1 semifinalist, 2 finalist teams, Excellence award.
 Big Island VEX tournament – Run by WHS robotics at Imiloa. 24 teams from
 Big Island and Oahu. Finished 1st & 3rd in seeding. Semifinalist, Excellence
 Award. American School in Japan VEX tournament – Run by WHS robotics
 students and mentors in Tokyo, Japan. 2nd, 4th and 5th in seeding, 2 semi-
 finalist teams, 1 tournament champion
 International Microrobot Contest – Nagoya University, Japan – 2nd and 3rd in 1
 cubic inch autonomous category, 3rd in cubic inch remote control category, 7th,
 8th and 9th in cubic centimeter category.
- 2010-11 FIRST robotics Honolulu Regional - won engineering inspiration / finalist /
 Innovation in control award in this tournament, qualified for Worlds. FIRST
 Robotics World Championship – St. Louis, Missouri: WHS sent a team
 that made it to the quarterfinals on the Galileo field after finishing seeded 12th
 out of 86 teams. Highest placing Hawaii team
 Botball Hawaii Regional – Two teams entered. Awards: Alliance Champions,
 2nd Place alliance, Cooperation award
 VEX World Championships - sent two teams to Orlando, Florida to participate
 in the World tournament
- 2011-12 VEX: Kealakehe VEX tournament – 1st seeding, tournament Champion, Excellence
 award. Big Island VEX robotics Tournament – WHS Robotics hosted and ran
 our third Big Island Tournament which drew 34 teams from all over the State.
 Quarterfinalist, Finalist, 3rd place skills. Pan Pacific VEX tournament – seeded
 11, 31,90 out of 104. Quarterfinalist, Judges award
 International Microrobot Contest, Nagoya Japan – Only two teams entered this
 year. We won the one cubic inch category again this year, 5th time entering
 CyberPatriot - Two teams made it to round three (final round of 32 in the
 Nation, only Hawaii teams left). Top Ten in cumulative scores for two teams
 in the Nation, missed cutoff for finals by 3 on Ubuntu server

- 2012-13 VEX: Big Island VEX tournament – Placed 1st, 4th and 5th in seeding, Tournament champion, runner up and quarterfinalist. Design Award. 30 teams compete at Kealakehe High. Big Island VEX League Tournament Finals – we hosted and ran the finals for the 25 teams in this tournament at our school. Waiakea finished 2nd, 3rd and 7th in seeding and after two WHS teams picked each other for the elims we finished as tournament champions and semi-finalists. Pan Pacific VEX tournament – Finished tied for first in seeding 7-1 record, 6th Seed, 1st pick of 2nd place alliance. 1st place winner out of 104 teams. Waiakea plays last two games in the best of three, set high score for the Entire tournament of 254 points. VEX Worlds – 3 teams qualified and participated in this tournament in Anaheim, California. All three teams end seeding with winning records. All three teams picked up for Eliminations. 8th seed, 2- 5th seeds. Nick and Kenneth knocked off in division quarterfinals. Abe makes it to Semifinals. Nick wins a judges award. Only 5/25 teams from Hawaii make it to the elimination round....3 are from Waiakea!
- 21st International MicroRobot Contest, Nagoya University, Japan: 1st and 2nd in The hardest Cubic Inch autonomous Category. 2nd and 3rd in the cubic Centimeter category, 1st and 3rd in the cubic inch remote control category, Best Performance, Best Design in the Bipedal Category. 130 robot entries, 7 countries.
- 2013-14 VEX: Big Island VEX tournament – Sponsored and run by WHS robotics. We had 11 Teams from Oahu, 21 from Big Island compete in this tournament. We finished Seeded 1st, 6th and 14th out of 32. Tournament Champion, Tournament Finalist And build award. VEX State Tournament – McKinley High School: Two teams qualified. Finish Seeded 3rd and 4th out of 40 teams. One loses to the other in the semi-finals And the second loses in the finals but qualifies for the World championships. WHS Robotics mentors our middle school team which also qualified for Worlds. VEX Robotics World Championships, Anaheim, California. Team makes it to Quarterfinals of their division after being picked up by the 5th seed. They lose To the eventual overall finalist team. Finished one of the top 100 bots out of the 5000+ teams in the World.
- International Micro robot Contest – Nagoya University, Japan:
 1st and 2nd in the Cubic-Inch remote category, 1st in the Cubic-Centimeter Hill climb, 3rd in the Cubic-Inch autonomous, 2nd place Biped category, Good Design award for the Cubic-Centimeter category. First time we won anything In the Cubic-CC hill climb category
- 2014-15 CyberPatriot – Both teams score perfect 200's on first round. In State rounds, one team finishes 3rd, other finishes around 10th. In last regional round, one team makes it and places 28th out of 1400 teams.
- VEX: Big Island Tourney – Finished seeded 3rd and 18th, knocked out in quarters and semi-finals.
 American School in Japan Tourney – Tournament Champion, Best design award, quarterfinalist
- International Micro robot contest – Nagoya University, Japan
 Cubic CC category – Best Design award, 2nd place hill climb
 Cubic Inch category – Autonomous: two tied for 1st place, one for third.
 Set tourney records of 3 seconds. In Remote Control category, we Take 1st and 3rd.

2015-16

CyberPatriot – First round: Teams finish 12th and 23rd Nationally out of 3483 teams. Final round – both end up in the Platinum round for only the top 300 teams out of the 4000 entered. We end up 54th and 71st nationally but have the 2nd best Cisco score in the Nation.

VEX: Hawaii Island VEX Tourney – two teams make eliminations but both are knocked out in quarterfinals. East Hawaii VEX tournament – one team loses in the finals, the other in semifinals. One team qualifies for States through skills score.

Micro robot contest – Nagoya University, Japan

Team captures 1st, 2nd and 3rd in cubic inch autonomous category and 1st, 2nd, and 3rd in the cubic inch autonomous category. Our best finish every! We also capture second place in the cubic centimeter speed and hill climb categories and a best design in that category too. Win 9 awards – our most ever.

FIRST – Sacramento Regional –. Seeded 9th in the 60 team tournament. Finished the seeding rounds 6-2 and became the 6th seed alliance captain. Win quarterfinals in two against the 3rd seeded alliance. Lose in the semifinals in two very close matches to the 2nd seeded alliance.