

Thanks!

From rookie and veteran team alike, thanks to our schools and our communities and most of all our sponsors for their support and financial backing. We thank our teachers, advisors, and parents for teaching, advising, and giving us the opportunity to let us test our wings. We thank our mentors for giving up all of their free time to guide us, design with us, build with us, push us, and inspire us. Rookies – we expect great things from you! We know you will continue to amaze us in the years to come! When it comes to Ultimate Ascent, it's the hardest fun we've ever had!



3rd Annual Make a Difference Day Mega Drive

Organized through a joint effort by *FIRST* Team 1511 and *FIRST* Team 340 (Greater Rochester Robotics), Mega Drive was recognized as a 2013 National Make a Difference Day Honoree by USA Weekend Magazine! Join us for the 3rd annual Mega Drive October 26, 2013! Help us collect Food, Children's Books, used Electronics and donate Blood through the American Red Cross

Join our effort, or set up your own! Let's Mega Difference in our Communities!

www.facebook.com/FIRSTMegaDrive



Rah Cha Cha Ruckus IX (RCCR 2013) Late October 2013



Going to be in the Rochester Area around Halloween? Don't know what to do with your Ultimate Ascent 'bot? How about joining the off-season party? Not only do you get to compete in a competition put together by a great committee of Rochester *FIRST* Teams, but you also get to have a great time! Come meet teams you haven't competed with before and participate in several fun activities available. You can come in costume and so can your robot!

Check out: <http://www.ruckus.penfieldrobotics.com/> for more information.

This information was gathered and organized by Team 1511, Rolling Thunder, from USFIRST.org, Chief Delphi Forums, The Blue Alliance, Facebook, YouTube, Team Websites and local news reports. Care has been taken to be as accurate as possible. Since all of our summaries are intended to be positive, it is hard to go wrong. However, if we did, we humbly apologize!

www.penfieldrobotics.com

4/2013

Team 1511 Presents

Meet the Rookies of 2013!

During the 2013 competitive season, over 360 rookie teams participated in Regional, District and State Competitions. We applaud their efforts and their accomplishments!

Not all Rookie Teams can make it to the *FIRST* Championship. We hope you will agree that the 61 Rookie Teams competing this week in St. Louis represent the "Best of the Best!" To help you get to know them we have prepared this overview of each of the Rookie Teams.

These teams:

- Competed at 69 Regional competitions, 4 District Events, and 2 State/District Championships
- Received 58 Rookie All-Star Awards
- 4 Rookie Inspiration Awards
- 26 Highest Rookie Seeds
- They also picked up awards for Regional Winners, Regional and District Finalists, UL Industrial Safety, Dean's List Finalist, and Creativity! Wow!

These teams:

- Were alliance partners in 42 quarterfinal rounds (11 times as captains),
- With 21 making it to the semi-finals, 13 moving on to the finals, and 7 teams were Regional Winners!

They have met all the challenges, some with surprising ease and some with great grit and determination. They have done Dean's Homework, formed partnerships with their schools, mentors, and communities and learned the meaning of Gracious Professionalism.

They have come to competitions with robots that performed, strategies that worked, spirit that shined, unique imagery, awesome technology and savvy well beyond their rookie year. We are awed by their achievements! Welcome to the *FIRST* Championship!

Thanks to all the teams for welcoming the rookies, sharing ideas, tools, and expertise to make sure that they had a great first year. Thanks for picking them up when they fell, treating them gently when they were bruised and considering them as equals in competition! You make great role models!

Brought to you by

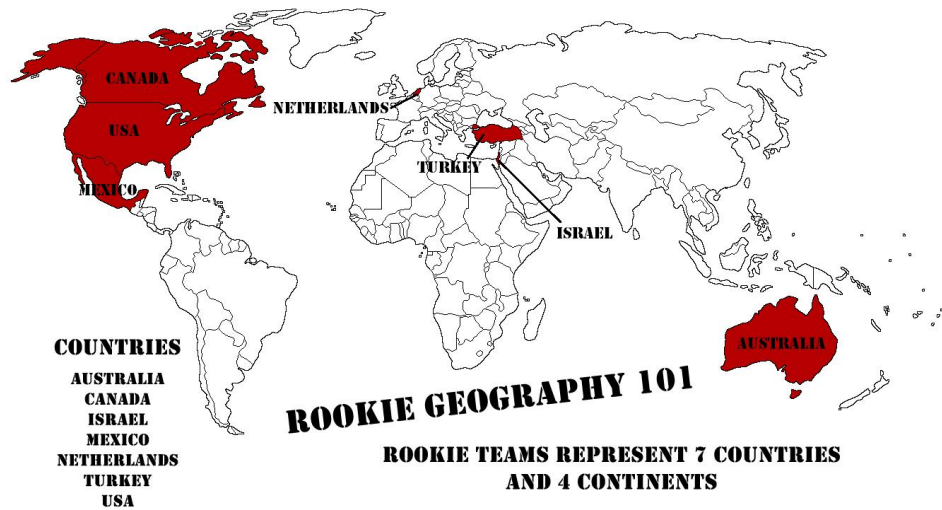
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2013 Rookie Factoids



Crossing the Oceans!

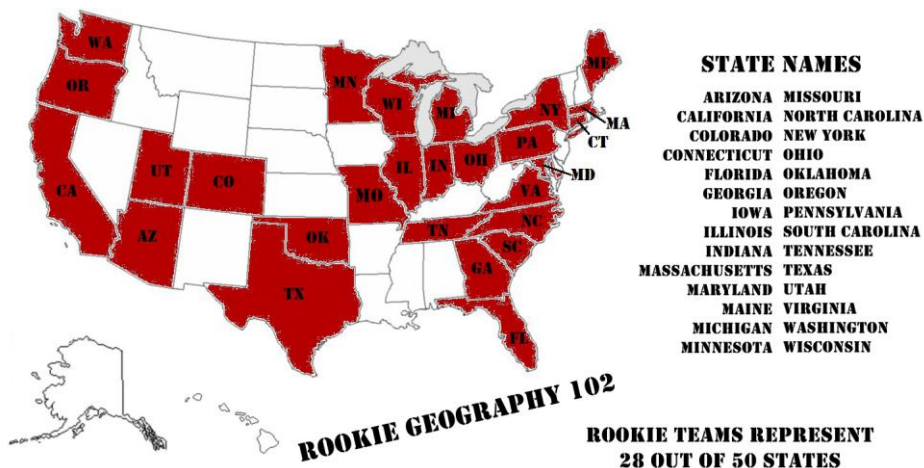
Four teams are crossing an ocean to play with us in Atlanta. **Team 4586, Promo**, from Israel, **Team 4481, The Rembrandts**, from the Netherlands and **Team 4713 Adom Robotics**, from Turkey will cross the Atlantic, while **Team 4537, RoboRoos**, from Australia will take the Pacific route. Bon Voyage!

Missing the Action

In addition to the amazing rookies at the Championships, five other rookie teams qualified, but were unable to be here to compete. We wanted to take a moment to recognize the Rookie All-Star winners - **Team 4611, O-Zone, Team 4800, Baconators** and **Team 4520, Misfit Toys** and Regional Winners - **Team 4591, XYZ**, and **Team 4633, Bobcats**.

Lions and Tigers and Bears, oh my!

It is a veritable zoo this year among the rookie teams! We have **Lions**- Team 4753, Bexley Lions, **Tigers** - Teams 4523, Cyborg Tigers, and 4470, TiGears, and **Bears** - Team 4610, BearTecs. We also have **Wolves** – Teams 4652, WolfTech and 4666, Robowolves, **Deer** – Team 4637, BambiBotz, **Kangaroos** – Team 4537, RoboRoos, **Dogs** – Team 4585, Husky Robotics, **Octopi** – Team 4502, The Octop, and **Hamsters** – Team 4466, Robo Hamsters. Among the flying critters, we have **Butterflies** – Team 4731, Monarch-E, **Owls** – Team 4797, Owlbots, **Birds** – Team 4601, Circuit Birds, and **Falcons** – Team 4557, Full Metal Falcons. The most popular animal in our **FIRST** Rookie Menagerie is the **Eagle** – Teams 4504, MECHDonogh Eagles, 4828, Robo Eagles and 4579, RoboEagles



All Rookie Meet and Greet

Who's Invited: All 2013 Rookie Teams!! (and any veterans that want to meet this year's great rookie teams!)

When: Friday, April 26 7:30-8:00 am

Where: Second Floor Atrium

What's Happening: Fun Introduction Game, Distribution of information for your upcoming years to continue to make you a Great team! Meet & Greet other Rookie Teams! Find out what it took for them to get to St. Louis!

Bonuses!!!: Great Prizes for Rookies!! Rookie Summary Booklet - get some great info on all the Rookies at Championships!

4731 "Monarch-E"	Archimedes
<p>Tecnológico de Monterrey Campus Morelia, Morelia, MIC Mexico Lone Star Regional: Rookie All-Star</p> <p>Monarch-E has had amazing community support, introducing their robot, MACHIN, at a local stadium. They have a big heart and have held a toy collection for children of low income communities and use a robotic dog to introduce children to technology.</p>	
4753 "Bexley Lions"	Archimedes
<p>Bexley High School, Bexley, OH USA Queen City Regional: Rookie All-Star</p> <p>This team was started with the help of St Charles (4269). They have a class devoted to robotics. Their high goal shooting robot is named Watermelon in reference to the pink sled and green pool noodles on the top of the robot. It looks like a watermelon cut in half!</p>	
4761 "Robockets"	Curie
<p>Reading Educational Foundation / Textron Systems / Teradyne / Keurig / Pixxa & Reading Memorial High, Reading, MA USA Boston Regional: Rookie All-Star</p> <p>This team's robot accepts the discs upside down and flips them for shooting and can shoot through basketball hoops! They will have a box in their pit to accept donations for "One Fund Boston" to support those most affected by the Boston Marathon Attacks.</p>	
4781 "Robo Spartans"	Curie
<p>jcpenny & Connersville High School, Connersville, IN USA Crossroads Regional: Rookie All-Star</p> <p>This student-led team found their voice at their regional and were able to communicate what being part of the RoboSpartans meant to them. The result? A top 24 team ranking for Indiana which qualifies them for the Indiana FIRST State Championship!</p>	
4797 "Owlbots"	Galileo
<p>jcpenny/Con Edison & William Cullen Bryant HS, LIC, NY USA New York City Regional: Regional Winner</p> <p>This team uses an owl logo to tie it in with its school. They were mentored by Team 1340, Spartan Robotics, and looked to experienced teams and mentors for advice. Their robot has a rotary shooter which works in autonomous. And it hangs too! Like an owl should!</p>	
4810 "I AM Robot"	Archimedes
<p>jcpenny / The State Group / Triple Tool & International Academy of Macomb, Clinton Township, MI, USA Michigan State Championships: Rookie All-Star; Grand Blanc, Troy Districts: Rookie All-Star (2), Highest Rookie Seed, Regional Finalist</p> <p>From an International Baccalaureate School, I AM Robot learned tenacity at their district events, going from last place to become a District Finalist! The team had to give a formal presentation at the state level on the way to becoming the state Rookie All-Star.</p>	
4814 "United Robotics of London (URL)"	Curie
<p>WE FIRST Incubator, London, ON Canada Greater Toronto West Regional: Rookie All-Star, Regional Winner</p> <p>URL is linking London together! They have organized workshops to teach kids about science and technology, held community service events such as cooking breakfast for the Ronald McDonald House, worked with girls to teach them programming skills and much more!</p>	
4828 "Robo Eagles"	Newton
<p>Enloe Magnet High School, Raleigh, NC USA North Carolina Regional: Regional Winner</p> <p>In 2011, four students formed a club and grew over the next year to form this year's team. They were mentored by Team 3459, PyroTech, and had two build locations, a classroom at school and a mentor's garage space. They call their website the Eagles Nest.</p>	

4450 "Olympia Robotics Federation"	Archimedes
<p>NASA / Washington State Office of Superintendent of Public Education / Capital Industrial, Inc / FastSigns, Inc. / H2OJet, Inc. / Obee Credit Union / South Puget Sound Community College / Christopher Cook & Olympia School District, Olympia, WA USA Seattle Regional: Rookie All-Star</p> <p>The first rookie team registered for 2013, this multi-school team is making an impact by petitioning the legislature for STEM funding and hosting an FTC Qualifier for 29 teams. They've named their robot Orfeus and built a 3-D model of it using AutoCad.</p>	
4451 "Robotz Garage"	Newton
<p>NASA / BOSCH / Bosch Rexroth Corporation / STUEKEN Precision Metal / Michelin / Laurens County Council / Piedmont Technical College & Laurens District 55 High School, Laurens, SC USA Palmetto Regional: Rookie All-Star, Highest Rookie Seed, Industrial Safety; Orlando Regional: Rookie All-Star, Highest Rookie Seed, Industrial Safety, Regional Finalist</p> <p>Robotz Garage is a very safe team! Be sure to tour this team's garage-like pit, including a robot cart modeled after a mid '50s Ford truck. Their robot, Fat Rat, follows the same theme and can climb and dump discs at the top of the pyramid!</p>	
4452 "First Noble Team"	Galileo
<p>Oconee County 4H, Seneca, SC USA Palmetto Regional: Rookie Inspiration; Peachtree Regional: Rookie All-Star, Highest Rookie Seed</p> <p>As a community based team, the First Noble Team is over 50% girls. They hosted a LEGO scrimmage in the fall and LEGO Summer Camps as a fundraiser. This team can keep a secret and held a surprise party for their mentors!</p>	
4462 "Full Metal Jackets"	Galileo
<p>Tennessee Valley Authority / UT Battelle & Oak Ridge National Lab / IEEE / Rockwood Electric Utility / ESG Construction / Jenkins Fabrication and Welding / ASME-Oak Ridge Group / ISA / Worldwide Interactive Network, Inc. / Browder Ace Hardware / Glenda Johnson- Coldwell Banker / Bionomics / Earl Duff Subaru / Ed and Marianne Byrnes / Lloyd Chapman / Foust Fitness / Kingston Hairstyling Center / Tennessee Eye Care / Tennessee Valley Optical / United Community Bank / Fraker Funeral Home / Sassy Kutz / Lowes / Sears / Barger and Sons / Eddie's Body Shop / The Eye Center at Midtown / ORNL Federal Credit Union & Roane County High School, Kingston, TN USA Smoky Mountains Regional: Rookie All-Star</p> <p>This team already has an impressive community service record, raising money for Susan G. Komen for the Cure, and collecting 125 pairs of glasses for Ghana! Their robot, Robo-Jacket, can shoot and climb to level three!</p>	
4464 "Team Illusion"	Curie
<p>NDEP & Team Illusion, Greenbelt, MD USA Washington DC Regional: Rookie All-Star, Highest Rookie Seed</p> <p>A Magical team! Looking dapper in black and white top hats, they have a strong partnership with University of Maryland college mentors. A rebirth of Team 53, they have sponsored an FLL team and held a girl focused STEM symposium.</p>	
4466 "Robo Hamsters"	Archimedes
<p>Angelic Technology & Angelic Robotics, Culpeper, VA USA Washington DC Regional: Regional Finalist</p> <p>This team's logo and image just make you want to say, awww! With their hamster hats, they compete in both VEX and FRC. Their robot, Paige1.0, has awesome lights! As Regional Finalists, the Robo Hamsters were beneficiaries of the new wildcard system.</p>	
4470 "TiGears"	Archimedes
<p>Rockwell Automation/Boeing & Valencia H.S., Placentia, CA USA Inland Empire Regional: Rookie All-Star, Dean's List Finalist</p> <p>The TiGears started early participating in off-season events- Battle at the Border and the Fall Classic. They are already very organized and built twin robots! They provided assistance at the Riverside Robot Expo and have reached out to tell 8th graders about robotics!</p>	

<p align="center">4471 "Spartrons" Archimedes</p> <p align="center">Abbott Fund/Motorola Solutions Foundation & Hollywood Hills High School, Hollywood, FL USA</p> <p align="center">South Florida: Rookie All-Star; Orlando Regional: Rookie Inspiration</p> <p>Battling back after major problems (anyone know how to fix chain?), they impressed Team 3502 (The Octorrates) resulting in a formidable alliance. By naming their robot Legacy, this 20-student team has given notice they intend to be around a long time!</p>
<p align="center">4472 "SuperNOVA" Galileo</p> <p align="center">NASA/Orbital/Lockheed Martin/BAE Systems/Micron Technology/SPARK Education Foundation/Osborn Park High School & Prince William County Public Schools, Manassas, VA USA</p> <p align="center">Virginia Regional: Rookie All-Star, Highest Rookie Seed</p> <p>A multi-school team, SuperNOVA started in 2010 to compete in MIT's ZeroRobotics, an autonomous programming competition involving satellites in space. They have expanded into FRC and hosted and volunteered for the Roboticon 2013 Vex Championships.</p>
<p align="center">4476 "W.A.F.F.L.E.S." Newton</p> <p align="center">Queen's University Faculty of Education Community Outreach Centre & W.A.F.F.L.E.S. Community Robotics, Kingston, ON Canada</p> <p align="center">Greater Toronto East Regional: Rookie All-Star, Highest Rookie Seed, Dean's List Finalist</p> <p>Who doesn't love Waffles?! This team is Wild About Family & Friends Learning Engineering and Science! They are open to students without a team at their high school and meet all year round. Community based, they have FLL, VEX and FTC teams as well.</p>
<p align="center">4481 "The Rembrandts" Galileo</p> <p align="center">Fontys University and Regional Opleidingen Centrum, Eindhoven, NB Netherlands</p> <p align="center">North Carolina Regional: Rookie All-Star</p> <p>Laser cut wooden palettes are cut and hand painted by young and old for this creative team's buttons! They helped JrFLL, FLL and FTC teams in the Netherlands before they became the first official FRC team from their country!</p>
<p align="center">4487 "Warhorse" Newton</p> <p align="center">NASA & Oologah-Talala High School, Oklahoma Department of Education, NASA, Oologah, OK USA</p> <p align="center">Razorback Regional: Rookie All-Star; Oklahoma Regional</p> <p>You can tell you are in Oklahoma when you load your robot crate into the Fed-Ex truck using a John Deere tractor! This team of 15 students was started with a grant from the OK Board of Education and made a great improvement from the first regional to their second.</p>
<p align="center">4488 "ShockWave" Curie</p> <p align="center">NASA / Hillsboro School District / WillaKenzie Estate / Juan Young Trust / Resource One / Synapticats / Apex Industries / Valley Machine & Glencoe High School, Hillsboro, OR USA</p> <p align="center">Autodesk Oregon Regional: Rookie All-Star, Highest Rookie Seed</p> <p>Recognized as #1 in Pit Safety, ShockWave was recognized for their outreach program with over 500 hours in mentorship and community involvement. They organized FTC and FLL qualifiers, and volunteered at a Junior FLL tournament, too!</p>
<p align="center">4492 "Chrono" Galileo</p> <p align="center">Enerkem / Robotique FIRST Québec / Commission Scolaire des Hauts-Cantons / Université de SherbRookie / Ville de Coaticook / MRC de Coaticook / Caisses Populaires Desjardins des Verts Sommets de l'Estrie / Les Entreprises Forestieres V. Labranche inc. / IGA Coaticook / Vitrine Virtuelle / Codet / Big Bill / Fondation La Frontalière / Création Jade / Carbone Graphique / Club Lions de Compton / Clinique Dentaire du Vieux SherbRookie / Impression GB / Home Hardware Coaticook / Caron et fils / NAPA auto parts Coaticook / Acier Lemieux / Ferme Jean-François Bolduc / Ville de Stanstead / Martin Lafreniere & Ecole secondaire La Frontalière (CS des Hauts-Cantons), Coaticook, QC Canada</p> <p align="center">Montreal Regional: Rookie All-Star, Highest Rookie Seed</p> <p>Partnered with the Universite de SherbRookie, Chrono practiced brainstorming techniques in developing their logo, with gears to represent mutual assistance, a stopwatch and a raised "O" to show movement and an open future!</p>

<p align="center">4652 "WolfTech" Newton</p> <p align="center">Goldendale High School, Goldendale, WA USA</p> <p align="center">Central Washington Regional: Rookie All-Star</p> <p>This team jokingly named their robot Underkill (insufficient force to defeat an enemy). This was not a sign of defeat but rather a celebration of their fortitude, approaching every match with a positive attitude and winning intentions. Look for their wolf mascot!</p>
<p align="center">4656 "Rock Solid Robotics" Newton</p> <p align="center">NASA / Applied Learning Institute / Northland Foundation / Kestrel Aircraft Agate Robotics / Stanley LaBounty Agate Robotics / HydroSolutions of Duluth / Granite Gear / North Shore Trade and Tech / Cooperative Light and Power / Burton Forge & Gallery / Silver Creek Signworks / The Lake Bank & Agate Robotics, Two Harbors, MN USA</p> <p align="center">Northern Lights Regional: Rookie All-Star,,;</p> <p>As "People of the Gear," this team provides support to other school groups as well as their own, fitting in a chili supper for the DECA team among their varied fundraising activities. They shipped their robot, Sarah, in a crate made of composite materials.</p>
<p align="center">4666 "Robowolves" Newton</p> <p align="center">Woodcreek High School, Roseville, CA USA</p> <p align="center">Sacramento Regional: Rookie All-Star</p> <p>The Robowolves were formed after the current team president transferred to WHS, and set out to start a FIRST team there! They made a t-shirt shooter which was used at football games and held a Junior Robotics Clinic to teach younger students about technology.</p>
<p align="center">4667 "Synergy" Curie</p> <p align="center">Baxter Mexico / Corporación Moctezuma & Synergy.Universidad TecMilenio Campus Cuernavaca, Cuernavaca, MOR Mexico</p> <p align="center">Minnesota 1000 Lakes Regional: Rookie All-Star</p> <p>Travelling a long way to snowy Minnesota from Mexico, this team pumped up the energy at their regional! They will sell anything to raise funds from mylar balloons to Krispy Kreme doughnuts! You'll spot them in their sharp green, red and white jumpsuits.</p>
<p align="center">4673 "Solar Energy" Archimedes</p> <p align="center">Honeywell Aerospace Systems Laboratory Company / Fundación Azteca / Mexicana Logistics / Accuride International & Instituto Educativo del Noroeste, A.C. & Centro De Bachillerato Tecnológico Industrial y de Servicios No.21, Mexicali, BCN Mexico</p> <p align="center">San Diego Regional: Rookie All-Star</p> <p>Solar Energy is located just south of the border between America and Mexico. The team has used some interesting ways to earn funds for Championships with car washes, gym membership raffles, and paying 5 pesos for the privilege of dressing casually on Fridays.</p>
<p align="center">4713 "Adom Robotics" Newton</p> <p align="center">jcpenny & Tepekent Anadolu Lisesi, Istanbul, 34 Turkey</p> <p align="center">New York City Regional: Rookie All-Star</p> <p>Sporting the Turkish crescent and star motif of their flag on their shirts, this team was all smiles when getting their picture taken with their robot in the pit. From the Sea of Marmara to the Hudson River, and now to the Mississippi River, we welcome them to St. Louis!</p>
<p align="center">4716 "Purple Raiders" Curie</p> <p align="center">Assumption S.S., Windsor, ON Canada</p> <p align="center">Greater Toronto West Regional: Regional Finalist</p> <p>With their robot, the Terrible Peacock and its giant red and blue tail, the Purple Raiders were wild card recipients after becoming Regional Finalists. They are a WEtech Alliance team and were mentored by Team 772 (77-who?) from Sandwich Secondary School.</p>

<p align="center">4607 "Coalition of Independent Students (CIS)" Galileo</p> <p>NASA/Liberty Paper, Inc./Xcel Energy/Initiative Foundation/Clear Lake Lions Club/Midcontinent Communications/Becker Furniture World/Darter Plastics/SEH, Inc. & Becker High School, Becker, MN USA</p> <p>Minnesota North Regional: Rookie All-Star, Regional Winner, Industrial Safety</p> <p>With a Star Wars(ish) theme, CIS is boldly going into the future! Organized into squads, CIS kept a log of activity on their website. Their climbing and defending robot, Liberty Xcelerator, arrived in St. Louis in a very pink crate courtesy of neighboring team , the Robettes!</p>
<p align="center">4610 "BearTecs" Curie</p> <p>Texas Workforce Commission & Bastrop High School BearTecs, Bastrop, TX USA</p> <p>Dallas Regional: Regional Winner, Rookie Inspiration</p> <p>Want extra credit for your AP Physics class? At Bastrop High School, being on the BearTecs is your best option! The students have learned so much more than physics as they work on "Building Bastrop Better."</p>
<p align="center">4627 "Iron Manning" Galileo</p> <p>Rockwell Automation & Ernest Manning High School, Calgary, AB Canada</p> <p>Western Canadian Regional: Rookie All-Star</p> <p>Iron Manning comes from a public school with a full pre-engineering curriculum. They have a strong business plan as they work to succeed in FRC, VEX, Alberta Skills while supporting the Western Canadian Regional.</p>
<p align="center">4629 "CDO Engineering" Newton</p> <p>Canyon Del Oro, Tucson, AZ USA</p> <p>Phoenix Regional: Rookie All-Star, Highest Rookie Seed</p> <p>CDO Engineering started with a grant from Boeing and a hope to expand to other high schools in their district next year. Their robot, Wolverine 3, is composed of recycled materials and their mascot is the Dorado, a Native American Warrior.</p>
<p align="center">4637 "BambieBotz" Archimedes</p> <p>NASA & Saint Hubert Catholic High School for GIRls, Philadelphia, PA, USA</p> <p>Mid-Atlantic Region Championship: Rookie All-Star; Springside-Chestnut Hill, Lenape Seneca Districts: Rookie All-Star</p> <p>This all-girl team brings a winning spirit. They are motivated by their dedication to their school and its core values of service, growth, learning and faith. Don't be fooled by the name, there are more steely eyes than doe eyes on this team! Bot-a-boom, bot-a-bing!</p>
<p align="center">4641 "Red Oak Robotics" Galileo</p> <p>Raytheon Company & Red Oak ISD, Red Oak, TX USA</p> <p>Dallas Regional: Rookie All-Star, Highest Rookie Seed</p> <p>This team started as a robotics club in 2010 an has competed in BEST before branching out into FIRST this year. After qualifying for Championships, the Texas Workforce Commission surprised them by providing the registration fee for Champs!</p>
<p align="center">4645 "X-Machina" Curie</p> <p>House of Two Urns / WMS Gaming / jcpenny & Lane Tech College Prep High School, Chicago, IL USA</p> <p>Midwest Regional: Rookie All-Star</p> <p>Deus Ex Machina is when a seemingly unsolvable problem is suddenly and abruptly resolved with the intervention of an unexpected event. X-Machina is when a seemingly unsolvable game is abruptly won with the intervention of this team's robot. Well done!</p>
<p align="center">4646 "Team ASAP (As Sketchy As Possible)" Curie</p> <p>NASA / John Deere / Des Moines Area Community College (DMACC) / John Deere Des Moines Works / PTC / Ankeny Schools Foundation / DMB Supply Inc. / State Steel & Des Moines Metro area schools, Des Moines, IA USA</p> <p>St. Louis Regional: Rookie All-Star, Highest Rookie Seed</p> <p>Team ASAP is small multi-school team who planned their robot around a "simple" strategy - become a 30 point climber. Their robot, Optimus Climb, achieved that goal! This community based team started as a FTC team and builds at a local community college.</p>

<p align="center">4499 "The Highlanders" Archimedes</p> <p>NASA / Ottercares / Encorp / Pleasing Software & Neaera Robotics, Fort Collins, CO USA</p> <p>Hub City Regional: Rookie All-Star; Colorado Regional:Rookie All-Star, Highest Rookie Seed</p> <p>The Highlanders are a multi-school team with students from 5 schools. They started from a FTC team and were mentored by two local teams to give them a firm footing. They built a pre-season robot, sold FIRST LED bulbs, and volunteered at an FLL qualifier.</p>
<p align="center">4501 "Humans" Archimedes</p> <p>NASA & New Roads School, Santa Monica CA USA</p> <p>Los Angeles Regional: Rookie All-Star, Highest Rookie Seed</p> <p>With the motto "more than a sum of our parts," the Humans use their name as a reminder that they are focused on more than the robot. They were featured on the Digital Culture LA radio show and wowed their school by shooting Frisbees through the basketball hoop!</p>
<p align="center">4502 "The Ocotoπ" Galileo</p> <p>Alamo Area Academies & Alamo Colleges-Memorial Early College High School, New Braunfels, TX USA</p> <p>Alamo Regional: Rookie All-Star, Highest Rookie Seed</p> <p>This team will always remember the Alamo! The Alamo Regional that is, where they showed their Texas grit. As alliance captain, they forged an international friendship with Mexican Team 3478, LamBot, and gained a huge cheering squad!</p>
<p align="center">4505 "MECHDonogh Eagles" Newton</p> <p>NASA/Science Applications International Corporation/Booz Allen Hamilton & McDonogh School, Owings Mills, MD USA</p> <p>Finger Lakes Regional: Rookie All-Star; Chesapeake Regional</p> <p>Can eagles fly with mechanical wings? These Eagles do! Their skill and determination led the top seed team to pick them and their robot, Golden Goose. Inspired by the book "The New Cool" and Team 888, Robotiators, this team has embraced the challenge of FIRST.</p>
<p align="center">4516 "BT Bots" Curie</p> <p>NASA/GE Volunteers & Blessed Trinity Catholic High School, Roswell, GA USA</p> <p>Peachtree Regional; Bayou Regional: Rookie All-Star,</p> <p>This team spent the summer making a robot under the guidance of mentor Team 1311,Kell Robotics. From that grew a rookie team with determination and skill. With their robot Spanky, they'll bring the noise, and, they hope, an added climbing mechanism!</p>
<p align="center">4519 "King's Mechavaliers" Newton</p> <p>King's Christian Collegiate / FIRST / Hatch / Anubis 3D & King's Christian Collegiate, Oakville, ON Canada</p> <p>Waterloo Regional: Rookie All-Star, Highest Rookie Seed</p> <p>With ongoing mentorship and joint fundraising from Team 3161 (Tronic Titans), this intellectual team's goal is to prepare for the future! They are experienced in setting up their own meet and greets. Tug-o-war, anyone?</p>
<p align="center">4522 "Team SCREAM" Galileo</p> <p>NASA/Waterloo Industries, Inc./Gardner Denver/Ditzfeld Transfer/WK Chevrolet/Bothwell Regional Health Center/E.W. Thompson Inc./General Cable & Smith-Cotton High School, Sedalia, MO USA</p> <p>Greater Kansas City Regional: Rookie All-Star</p> <p>Their robot, MANTIS, demonstrates simplicity and efficiency, shooting discs and reaching to dunk discs in the pyramid goal! This Smith-Cotton Robotics, Engineering, and Mathematics (SCREAM) team also competes in BEST and believes "the sky is not the limit."</p>
<p align="center">4523 "Cyborg Tigers" Curie</p> <p>Oklahoma State Department of Education & Pryor High School, Pryor, OK USA</p> <p>Oklahoma Regional: Rookie All-Star, Highest Rookie Seed</p> <p>Oklahoma is OK with its newest rookie team, the Cyborg Tigers. Using mostly donated materials, their robot BaconSlicer is a testament to their skill and fiscal responsibility. They certainly lived up to their school motto "where education meets opportunity".</p>

4531 "STEMpunk"	Newton
NASA & Mishicot High School, Mishicot, WI USA Wisconsin Regional: Rookie All-Star, Highest Rookie Seed	
This team is known for their incredible fashion sense as well as superlative robot design. Donning hats, vests, and sometimes goggles, they dressed their way to success. There was a lot of profuse eye sweating at the awards because there is no crying in robotics.	
4537 "RoboRoos"	Archimedes
BAE Systems Australia/TechnoPlas/Don Alan Pty Ltd/Heathgate Resources/Adelaide Pneumatic Sales & RoboRoos, Everard Park, SA Australia Hawaii Regional: Rookie All-Star	
Expanding FIRST into South Australia, the RoboRoos are a community team with lots of enthusiasm! The 15 students hale from 5 schools and participated in an off-season Rebound Rumble re-do, bringing home an Innovation in Design award.	
4539 "Kaotic Robotics"	Newton
The University of Minnesota College of Science and Engineering/BTD Manufacturing/Porta-Dock/Alexandria Industries/Tri-State Manufacturers Association/Frazee Lions Club/TEAM Industries & Frazee-Vergas High School, Frazee, MN USA Lake Superior Regional: Rookie All-Star, Highest Rookie Seed, Regional Finalist	
Who wants to build a house when you can build a ROBOT?!?! This team started out as a class for construction trades – but became a winning team in just a few months. They built a junkyard robot to show that robots can be green too, gaining tremendous local support.	
4541 "Cavs"	Galileo
Battelle/SAIC/AFCEA & Archbishop Spalding High School, Severn, MD, USA Chesapeake Regional: Rookie All-Star, Highest Rookie Seed, Xerox Creativity Award	
When their robot started to look like an elephant, they named it Horton! The Cavs have used that theme to develop a photo journal to tell the story of their rookie year. Horton climbs up the inside of the pyramid and the team has been recognized for their creativity!	
4543 "Apollo Robotics"	Curie
Apollo High School, San Jose, CA USA Central Valley Regional: Rookie All-Star, Highest Rookie Seed; Silicon Valley Regional: Rookie All-Star, Highest Rookie Seed	
The website of Apollo Robotics is full of personal stories of how FIRST has changed the team members' lives, keeping these kids in school and considering technical careers. As part of a robotics class, these 14 students have spent over 3000 hours as a team.	
4545 "Golden Knights"	Archimedes
EdPower Arlington High School, Indianapolis, IN USA Boilermaker Regional: Rookie All-Star	
The Scholars of the Golden Knights formed a team when a teacher with FIRST experience took a new position at their school. They competed in VEX and actually didn't start work on their FRC robot until week three! They are mentored by several veteran teams.	
4557 "Full Metal Falcons"	Galileo
NASA/UTC & Xavier High School, Middletown, CT USA WPI Regional: Rookie All-Star, Highest Rookie Seed	
Stressing safety, this team was recognized with a Safety Star of the Day and a #1 for Pit Safety award! Their robot came out flying at the end of build season, and took the #1 seed at Suffield Shakedown. The team received the Rookie All-Star Award at that event.	
4564 "Orange Chaos"	Curie
jcpenny/Fairchild Semiconductor & Brewer High School, Brewer, ME USA Pine Tree Regional: Rookie All-Star	
Orange Chaos has done a wonderful job of capturing their build season in video on their website! They are mentored by Team 2648, Infinite Loop, and in turn mentored a middle school FLL team this past fall. You'll find them sporting fedoras and bow ties!	

4567 "Seaford Vikings"	Galileo
Seaford UFSD, Seaford, NY USA SBPLI Long Island Regional: Rookie All-Star, Highest Rookie Seed	
The Seaford Vikings are part of the Seaford HS Engineering Club and also compete in KidWind, a wind turbine design contest that took place between their regional and Championships. They did really well last year and were hoping for similar results this year!	
4572 "BARlow RobAutics"	Newton
United Technologies Corporation / NASA & Joel Barlow High School, Redding, CT USA Connecticut Regional: Rookie All-Star	
What do Argon and Gold have in common? Their atomic symbols are both included in the team name of BARlow RobAutics! This team formed when one student who participated in another HS team brought the idea and lessons learned back to his own school.	
4576 "Red Nation Robotics"	Curie
DeRoyal Industries, Inc. / Alcoa Foundation / Knox County Schools & Halls High School, Knoxville, TN USA Smoky Mountains Regional: Regional Winner	
Red Nation Robotics wears our team's favorite gear, Red Camo Pants! After being part of the winning alliance at their regional, fundraising and community service has occupied their time and the Halls Crossroads is much cleaner after their highway clean-up.	
4579 "RoboEagles"	Galileo
Air Time Aviation/Honest Performance & Federal Way High School, Federal Way, WA USA Seattle Regional: Highest Rookie Seed, Regional Finalist	
After ending their competition as Regional Finalists, the RoboEagles were given a Wild Card qualification to Championships! Their mascot is based off of the school's Eagle mascot and they have a famous alumni, a municipal court judge as one of their team mentors.	
4585 "Husky Robotics"	Archimedes
Comcast / SAIC / Neumont University / NASA & Hillcrest High School, Midvale, UT USA Utah Regional: Rookie All-Star	
With about 35 students, a robotics and automation class at their high school, and lots of advice from other teams, Husky Robotics was set on a firm foundation. During pre-season they used FTC and picked up traffic cones and ping pong balls.	
4586 "Primo"	Newton
MICROSOFT / A.RINGEL / Modiin's municipality / Automotive Equipment Group / New Technology S.K. Ltd / MACCABIS / OFFER FALAFEL / Gelarte / LIOR SHEMER RAHITIM / ShaGal Marketing Solutions Ltd. / A.C.P / LEDICO / DFUS-HAD & IRONI B MODIIN, Modi'in, M Israel Israel Regional: Rookie All-Star	
Primo spends as much time contributing to the community and school as they did working on designing and building this year's robot! They tutor students, mentor FLL teams and helped get 10 computers for an elder activities center.	
4589 "Adamas Bots"	Archimedes
NASA / Humble ISD Education Foundation / CATE Center / Texas Workforce Commission / The Allied Power Group / The Houston Endowment / Titan of Texas / Gregg and Ann McHenry / Amazon Coding LLC / Gustie M. Houston / Anonymous & Humble ISD AdamasBots, Houston, TX USA Lone Star Regional; Bayou Regional: Regional Winner, Rookie Inspiration	
Adamas is the Greek word for adamant and they are adamant about making a difference! Even as they were raising funds for St. Louis, they worked to get donations of items for the West, TX community for the Red Cross. Their ultra light robot is a "Paperweight!"	
4601 "Circuit Birds"	Galileo
NASA / City Machine Technology / Bellino's Lube Plus / Forbush Machine / Mahoning Valley Anesthesia / Ramunno Builders & Canfield High School, Canfield, OH USA Pittsburgh Regional: Rookie All-Star, Highest Rookie Seed	
This team has built strong partnerships with mentors and sponsors. They were recognized for building a cleanly designed robot, having a safe pit, having a creative image and for impressive involvement with their community.	