



# “NX TREME QUALIFIES FOR WORLD FESTIVAL”



On the weekend of December 4th & 5th, 2010 Ashburn Robotics :: NX Treme competed at James Madison University in the State First Lego League Tournament. The event featured the top 100 robotics teams throughout Virginia and Washington D.C. This was our fifth year competing at the state level. This year Ashburn Robotics was awarded overall tournament champion in division II and had the highest table score for division II of 365 out of a possible 400 points. With this accomplishment we have been invited to represent the VA/DC region at the FLL World Fest Tournament to be held in St. Louis, MO. in April. World Fest is the culmination of the FLL Season, an international celebration of Lego Robotics and robotic competition. Ashburn Robotics is a neighborhood team based in the Broadlands, but drawing team members from many of the surrounding communities. Team members, left to right are: Kyle, Lindsey, Katherine, Nathan, Jacob, Austin, Kaustubh,

Alex, and Michael. NX Treme qualified for the state championship during the November 6th Regional Tournament held at Thomas Jefferson High School in McLean, VA. The team scored 290 points out of a possible 400 and was awarded the robot performance award, and the chance to compete at the state level. This year’s regional tournaments featured more than 500 teams from across the state competing for a chance to attend the State Championship. Only the top 20% advanced on to compete at JMU for state titles. As part of this year’s research project, the team investigated how to improve the body in the form of improved prosthetic arms. Their solution included the use of an optical sensor tied to image recognition software to improve the number of grips a prosthetic could use. They met with a prosthetitian from VA Prosthetics and also Dr. Armiger at the Johns-Hopkins Applied Physics Laboratory, who is working on the proto-2, a cutting-edge prosthetic arm.

- **Overall Tournament Champion (div. 2)**                      **VA/DC State Tournament**
- **1<sup>st</sup> Place Robot Performance (div. 2)**                      **VA/DC State Tournament**
- **1<sup>st</sup> Place Robot design (div. 2)**                              **VA/DC Regional Tournament**
- **1<sup>st</sup> Place Robot Performance (div. 2)**                      **VA/DC Regional Tournament**



## F.I.R.S.T. (For Inspiration and Recognition of Science and Technology) Lego League

First Lego League introduces children 9-14, around the world, to the fun and excitement of solving real-world problems through the application of math, science, and technology. It combines a hands-on, interactive robotics program with a sports-like atmosphere. Teams consist of up to 10 members with a focus on such things as team building, problem solving, creativity, and analytical thinking.

Ashburn Robotics, founded in 2005, has been the recipient of over fifteen state and local titles. To find out more about the team and to see this year’s robots please check out their YouTube videos on the web by searching under “Ashburn Robotics” or by visiting the Ashburn Library during the month of March.