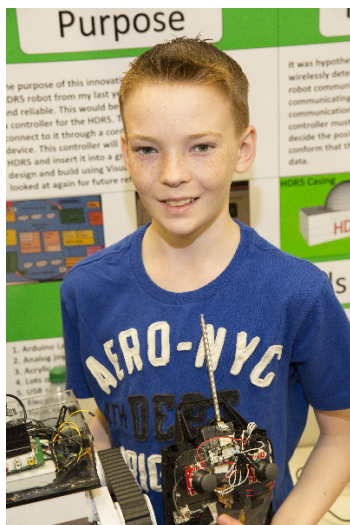


CWSF 2014 - Windsor, Ontario



Jesse Plamondon

Controlling HDR5: The H2S Detecting Rover 5

Challenge: Innovation

Category: Junior

Region: Northern British Columbia

City: Fort St. John, BC

School: Bert Bowes Jr Secondary

Abstract: In this project I was modifying the HDR5 robot that was built for part one of this project last year. I built a controller for the robot to make it more efficient. The HDR5 detects H2S gases in the oil and gas industry. The HDR5 has been improved in areas such as the camera, controlling system and the microcontroller to make the robot more marketable.

Biography

I am a grade eight student at Bert Bowes Middle School and I have lived in Fort St. John my whole life. My favourite subject is science. In science I love physics and robotics. Science Fair became part of my life at a very young age. I started at the age of six and have done a variety of projects-erosion, solar sluice box, gold mining, rocks and minerals. At our regional science fair, I received 4 awards for the project that I am bringing to CWSF-a robot that will have built in sensors for well sites to detect levels of H2S and hopefully save lives. I am very excited to be attending the CWSF with my brother, who also has a project, while hoping to attend again in the future. I love hunting with my brother and my dad for sheep and deer; I recently shot a deer that scored 170. I play the drums in my band and I love playing rock music. My favourite music is dub-step, 80's rock and pop. My favourite band is Guns n Roses. At school I like to hang out with my friends as well as play sports-basketball, ping-pong, badminton, soccer and bowling.

Awards

Value

Excellence Award - Junior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100