



## Oxford on Rideau Tech – 2019 goals document

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### **Goal Description: NAO Educational Robot with Choregraphe Software Package**

**Reason for Goal:** Robotics is the fastest growing and most advanced technology used in education and research. The NAO humanoid robot is the ideal platform for teaching Science, Technology, Engineering and Math (STEM) concepts at all levels.

By using the NAO platform, instructors and researchers stay current with major technical and commercial breakthroughs in programming and applied research. Using NAO guarantee students, the best possible career and college readiness!

It is equipped with many sensors: Tactile Sensors, Ultrasonic sensors, A Gyro, A n Accelerometer, Force Sensors, Infrared sensors, 2 HD Cameras, 4 Microphones and high accuracy digital encoders on each joint. It has two processors on board: an Intel Atom 1.6Ghz (The main computer includes SSD drive, WiFi, Bluetooth and wired network) and an additional ARM-9 processor in its chest.

The advanced software package includes a full SDK and API in Python, C# (.NET), C++ and Java. Every robot comes standard with Choregraphe, an award-winning software that makes it easy to program the robot using a drag and drop interface which simplifies the programming for new and advanced users alike. The software package includes an advanced simulation software based on Webots.

Further Information: <http://www.robotlab.com/store/nao-evolution-educator-pack>

**Breakdown of costs:**

\$9000.00 USD = Cost of Hardware as listed on robotlab.com

\$354.00 USD = Shipping costs from robotlab.com

\$9354.00 USD = Total cost USD

\$11948.66 CDN = Total cost CDN (conversion done on 03-Nov-2017 converted by google)

\$13501.99 CDN = Total cost CDN with 13% taxes

**\$14100.00 CDN** = Estimated Final Cost Including Taxes and Brokerage Fees