

HAMILTON'S GREAT PAST AS THE ELECTRIC CITY

HAMILTON: THE ELECTRIC CITY

The new concept of alternating current allowed hydro-electricity to be transmitted to Hamilton in 1896. By 1900, a power plant in thousands of light bulbs was constructed in Gore Park in the Hamilton Club to display this new phenomenon.

Hamilton Public Library Local History and Archives



From the beginning of the 19th century, settlers were attracted to this region by the power of water cascading over the Niagara Escarpment. But it was not until 1896 that five Hamilton businessmen known as "The Five Johns" (John Dickenson, John Gibson, John Moodie Sr., John Patterson and John Sutherland), had the foresight and courage to invest in the new concept of hydro-electric generation and transmission. Backed by the economic strength of the Bank of Hamilton and technical advice from the Royal Electric Company, they formed the Cataract Power Company. With water drawn from the Welland Canal, inexpensive hydro-electric power was generated at DeCew Falls and transmitted 27 miles (43 kilometres), an unheard of distance, to a power sub-station on Victoria Avenue. Thus, Hamilton became the foremost electrified city in Canada and achieved world leadership in electrical power development.



Hamilton Canada: Its History, Commerce, Industries, Recreation, 1913, www.urbansky.org



Reprinted ca. 1907 showing artist's conception of proposed Hamilton Terminal Station. The glass-covered bus area to the left of the building was never built. www.hamiltonreport.com

The Cataract Power Company evolved into the Dominion Power and Transmission Company in 1907 with head offices at the Hamilton Terminal Building (seen at left), which became the hub of one of the country's most extensive interurban electric railway systems offering service to Brantford, Dundas, Oakville and Grimsby. The horse-drawn Hamilton Street Railway was one of the first to adopt electricity.

A port city like Hamilton with major railways, combined with abundant electrical power, attracted many new manufacturers such as Westinghouse, Otis Elevator and numerous cotton/clothing companies. Hamilton was dubbed the "Birmingham of Canada". True to the vision of its electrical entrepreneurs, the city's population and economy expanded dramatically. As a symbol of that growth and prestige, a 100 foot (30.4 metre) lighted tower was constructed in Gore Park (1900 - 1923), inspired by the Eiffel Tower of the 1889 Paris World Fair.



Hamilton Historical Board
City of Hamilton
2014



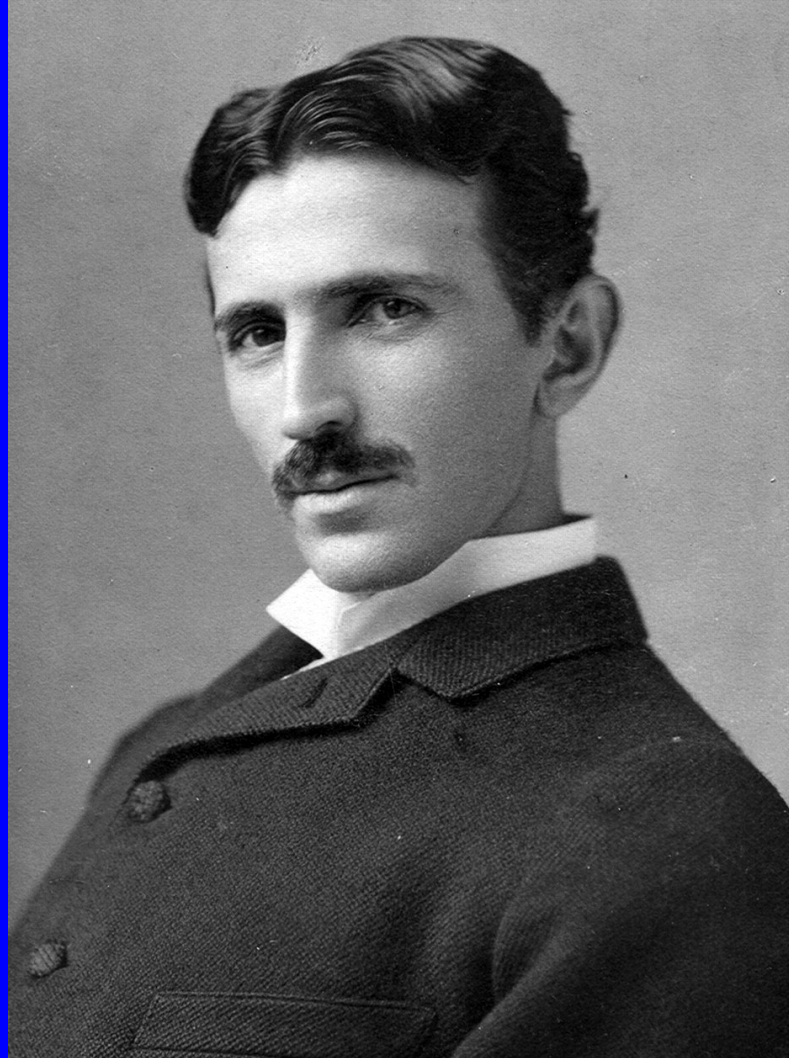


JOHN PATTERSON: VISIONARY

ACHIEVEMENTS:

- * **ELECTRIC RAILWAY**
- * **WESTINGHOUSE ELECTRIC
MOTORS FACTORY**
- * **STEEL INDUCTION
FURNACE**
- * **HYDROELECTRIC POWER
PLANT**
- * **DECEW FALLS POWER
LINE**



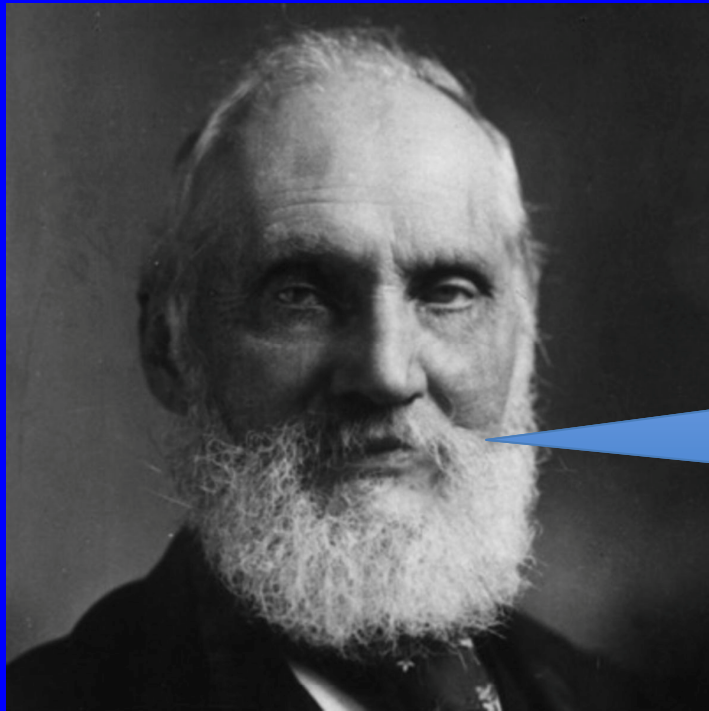


IMPOSSIBLE WITHOUT NIKOLA TESLA

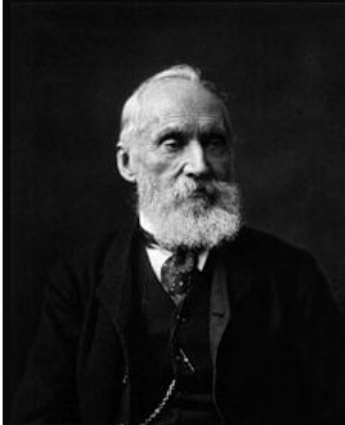


**DECEW FALLS:
35 MILES FROM
HAMILTON**





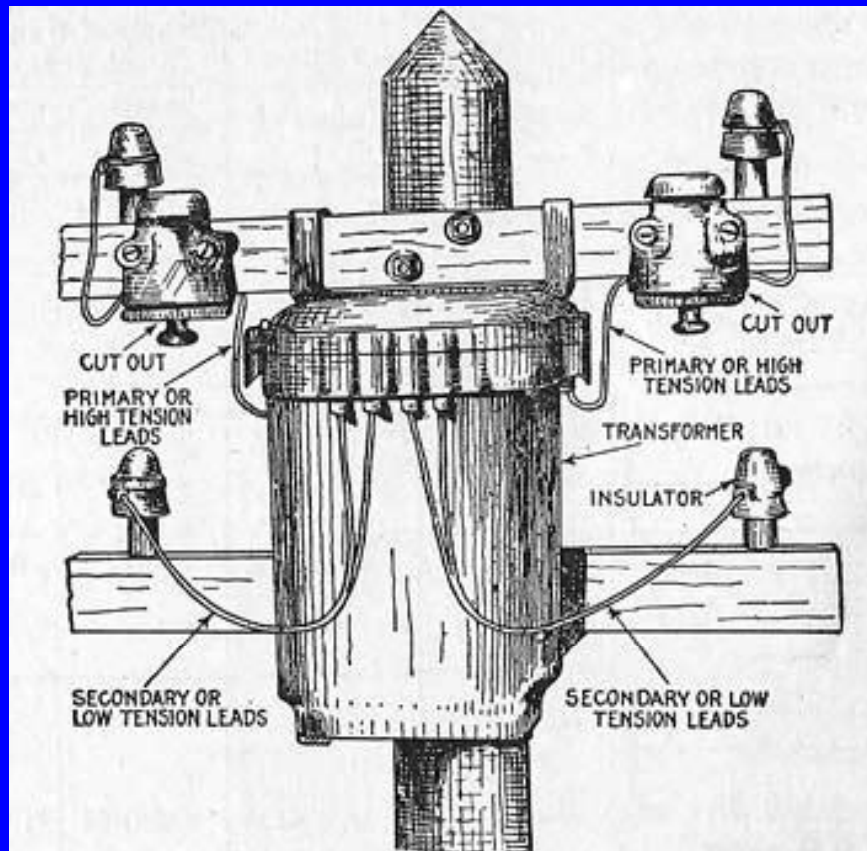
**ELECTRICAL
TRANSMISSION
FURTHER THAN
12 MILES IS
IMPOSSIBLE!**



Heavier-than-air flying machines are impossible.

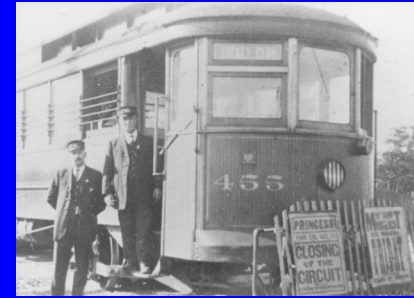
(Lord Kelvin)

izquotes.com



TESLA'S AC TRANSFORMER

HAMILTON SPECTATOR, MONDAY, DECEMBER 8, 1894.



HAMILTON – A WORLD LEADER!

N. TESLA.
ALTERNATING MOTOR.

No. 555,190.

Patented Feb. 25, 1896.

Fig. 1

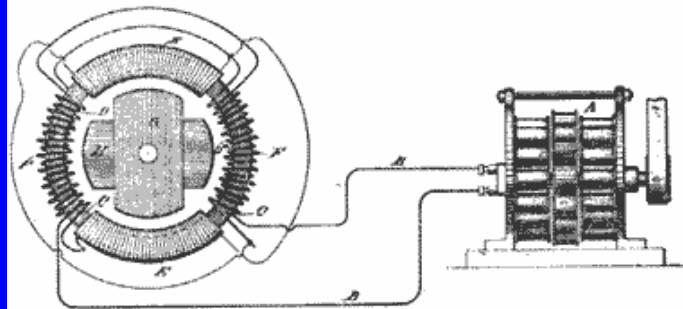
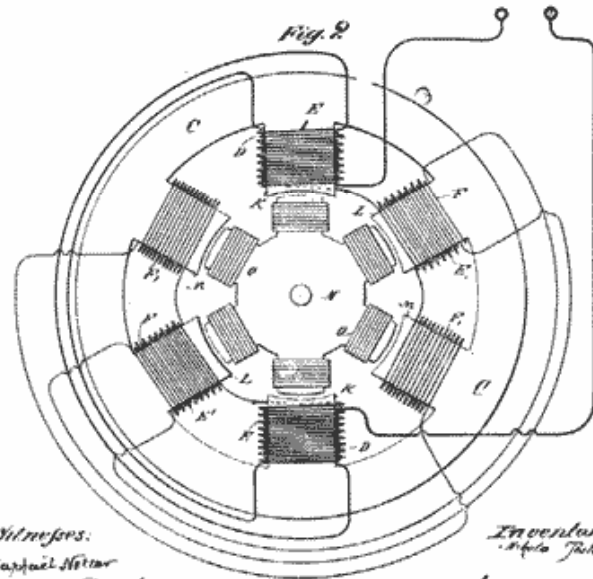


Fig. 2



Witnesses:
Raphael H. H. H.
Robert F. G. G.

Inventor
N. Tesla
by
Duncan, Curtis & Hay,
Attorneys

TESLA'S INDUCTION MOTOR



THE PERFECT PARTNERSHIP!

Baldwin-Lima-Hamilton built this class E-3-B rectifier electric for the Pennsy in November, 1951. Westinghouse supplied electrical equipment.



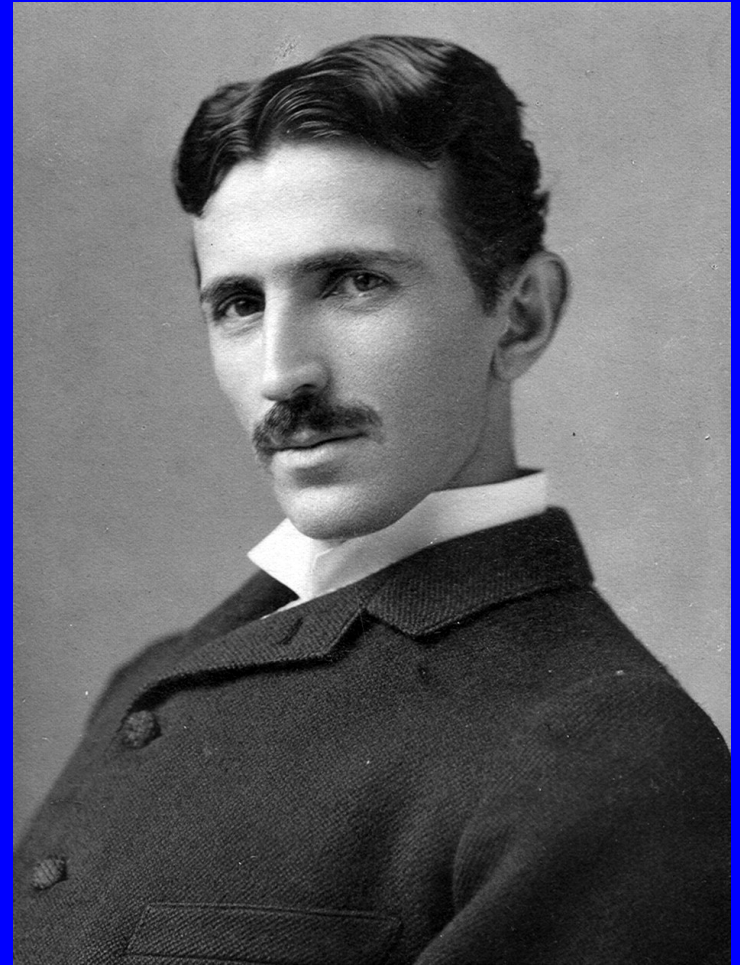
**ELECTRIC LOCOMOTIVE – ENGINE MADE
IN HAMILTON**

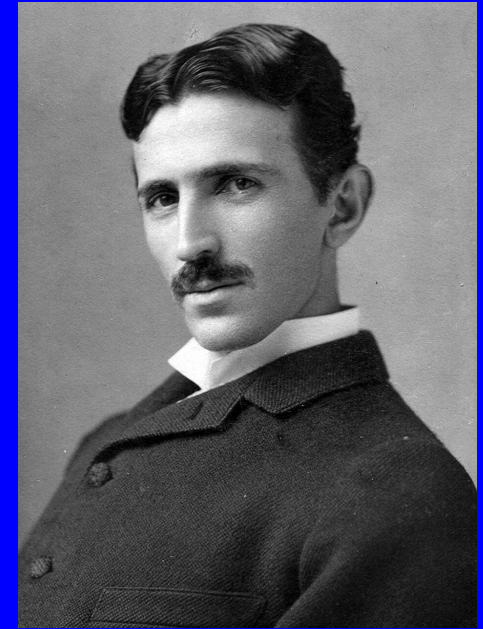
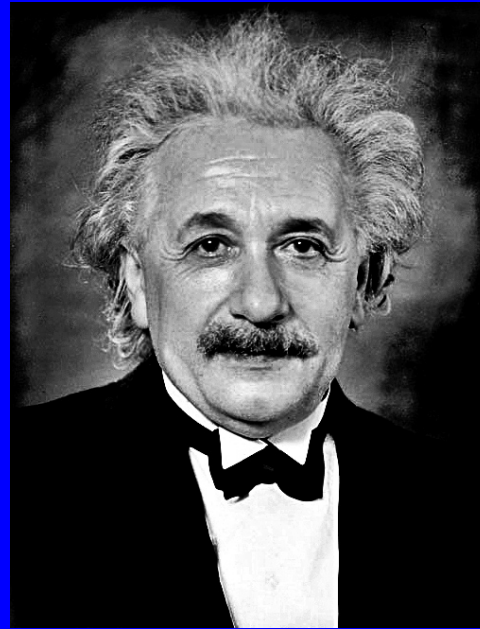


ELECTRIC INDUCTION AND STEEL MAKING

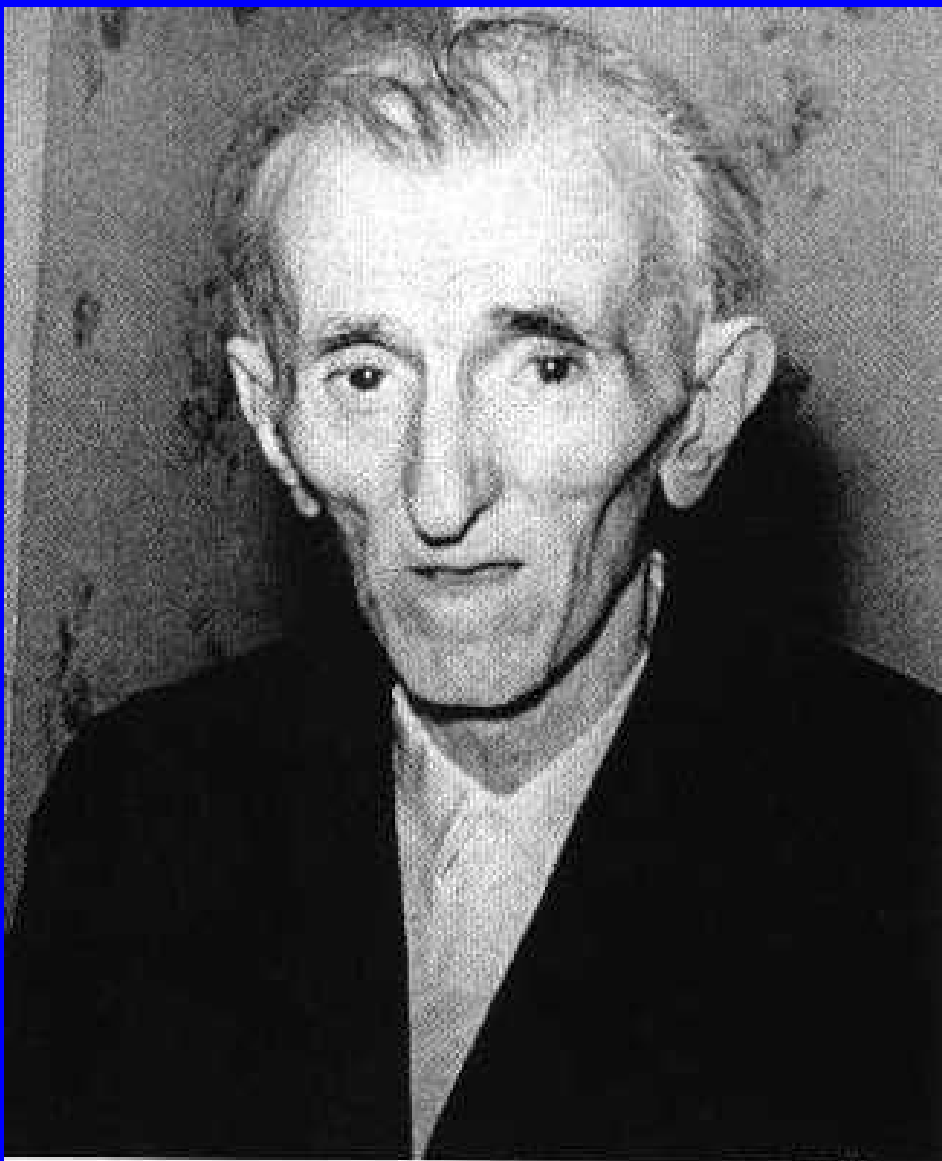


**SERBS ARE
JUSTLY PROUD
OF THEIR NATIVE
SON –
HOWEVER...**





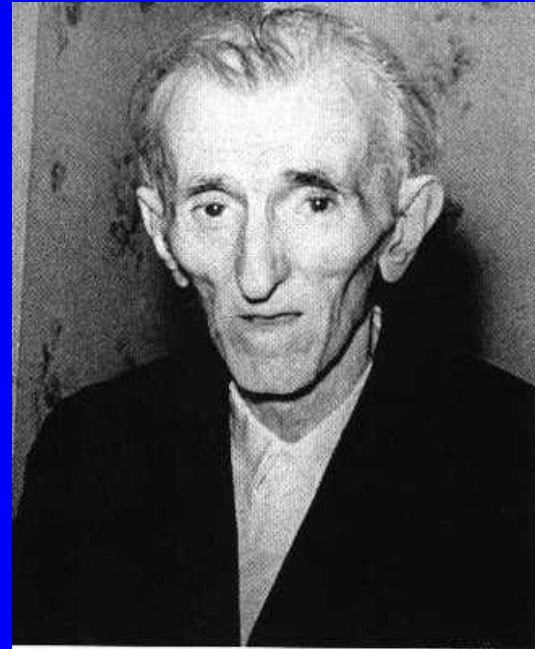
**GREAT SCIENTISTS BELONG TO ALL OF
HUMANITY**



**TESLA DIED
UNRECOGNIZED –
A GREAT
INJUSTICE!**



**US SUPREME
COURT
TRANSFERS
RADIO PATENTS
TO TESLA FROM
MARCONI**



1 Tesla = 10,000 Gauss
Typical MRI magnet = 1.5 T = 15,000 Gauss
Earth's magnetic field = 0.5 Gauss

how equipment works: com





**TESLA: CANADA
PAYS TRIBUTE**

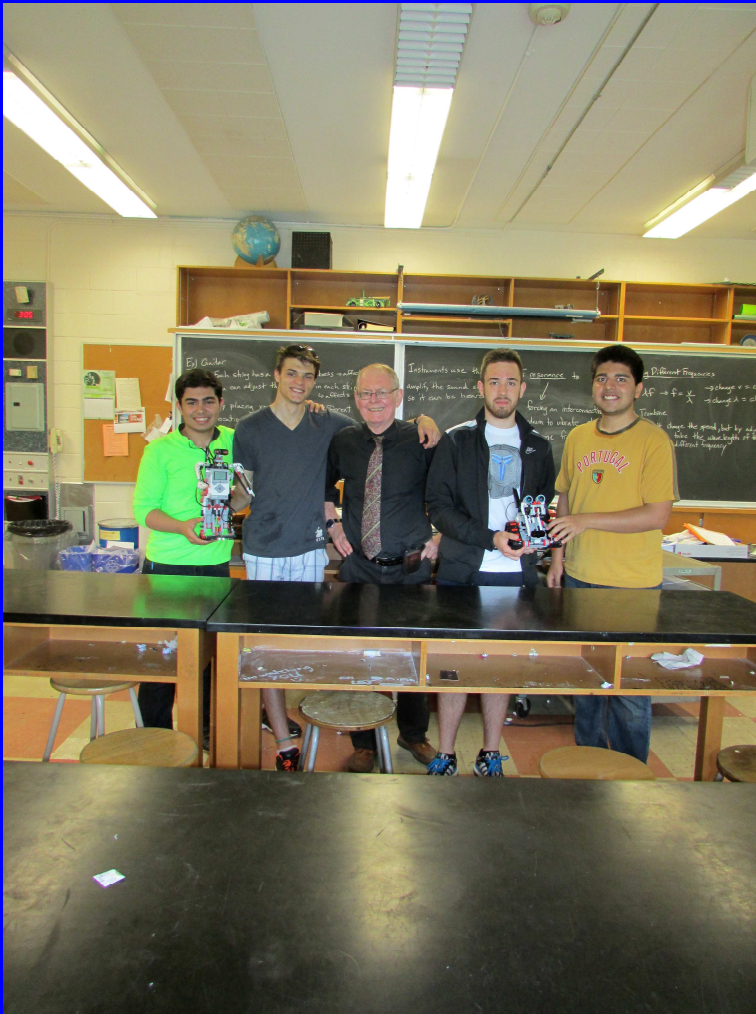




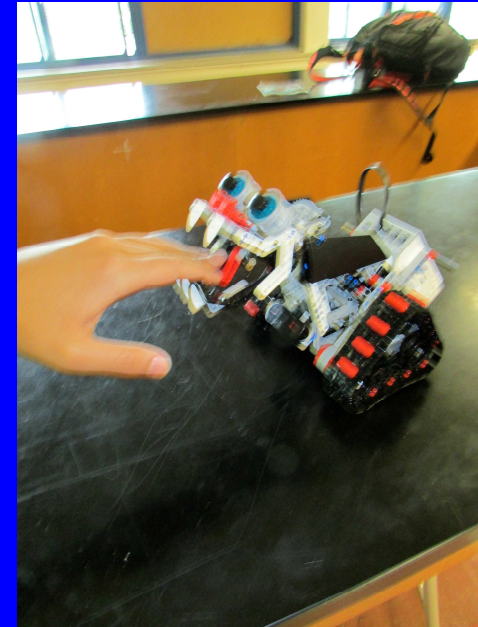
GLENDALE: OUR SCHOOL



TESLA WAS THE FATHER OF ROBOTICS



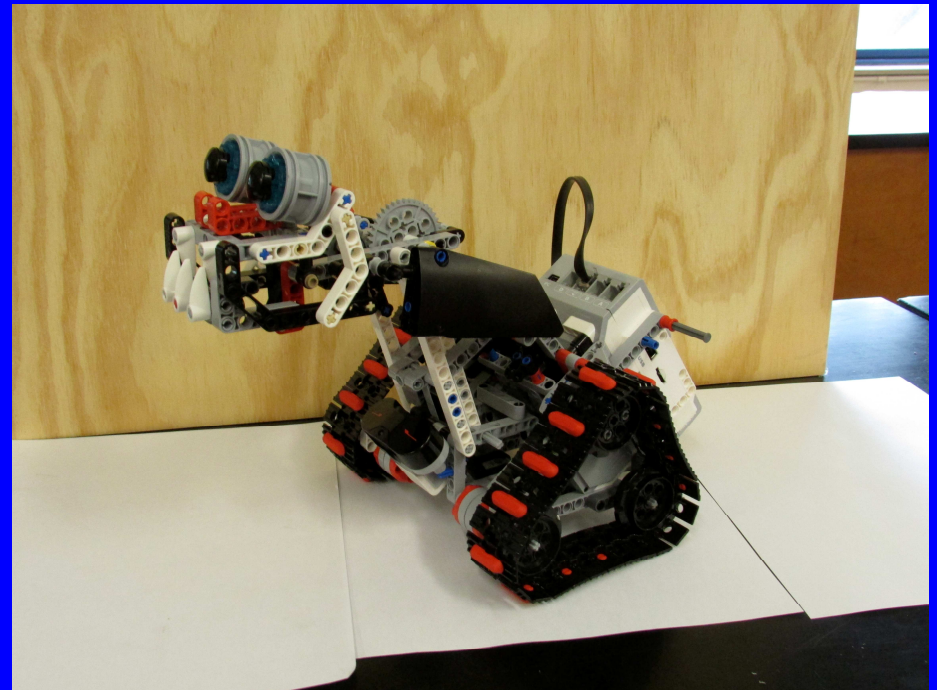
**HE INSPIRES OUR
STUDENTS TODAY**

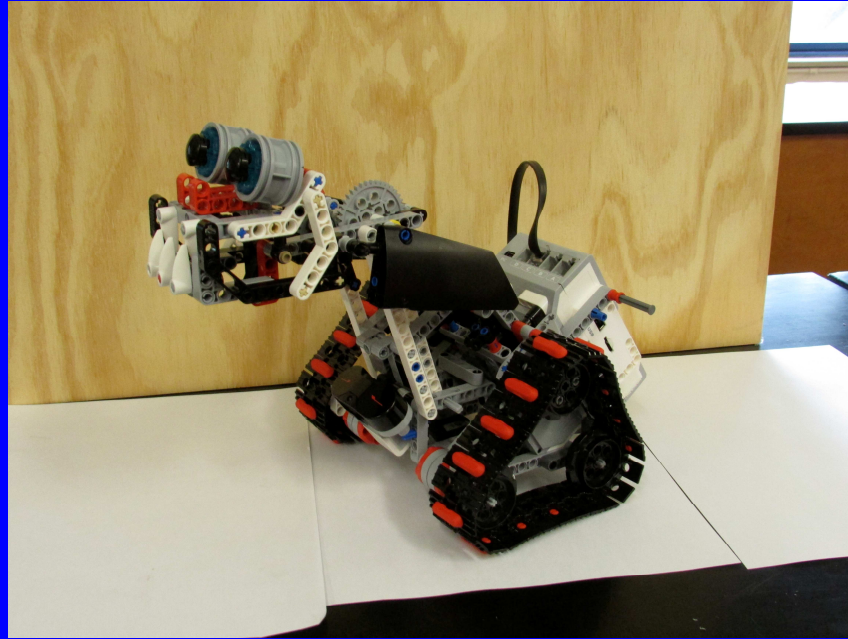




HAMILTON TODAY

**LEADER IN
MEDICAL
ROBOTICS**





BAY AREA SCIENCE AND ENGINEERING FAIR



**NIKOLA TESLA: A MAN OF GREAT
VISION AND COURAGE, DESERVING OF
OUR GRATITUDE AND WORTHY OF THIS
PROPOSED TRIBUTE!**