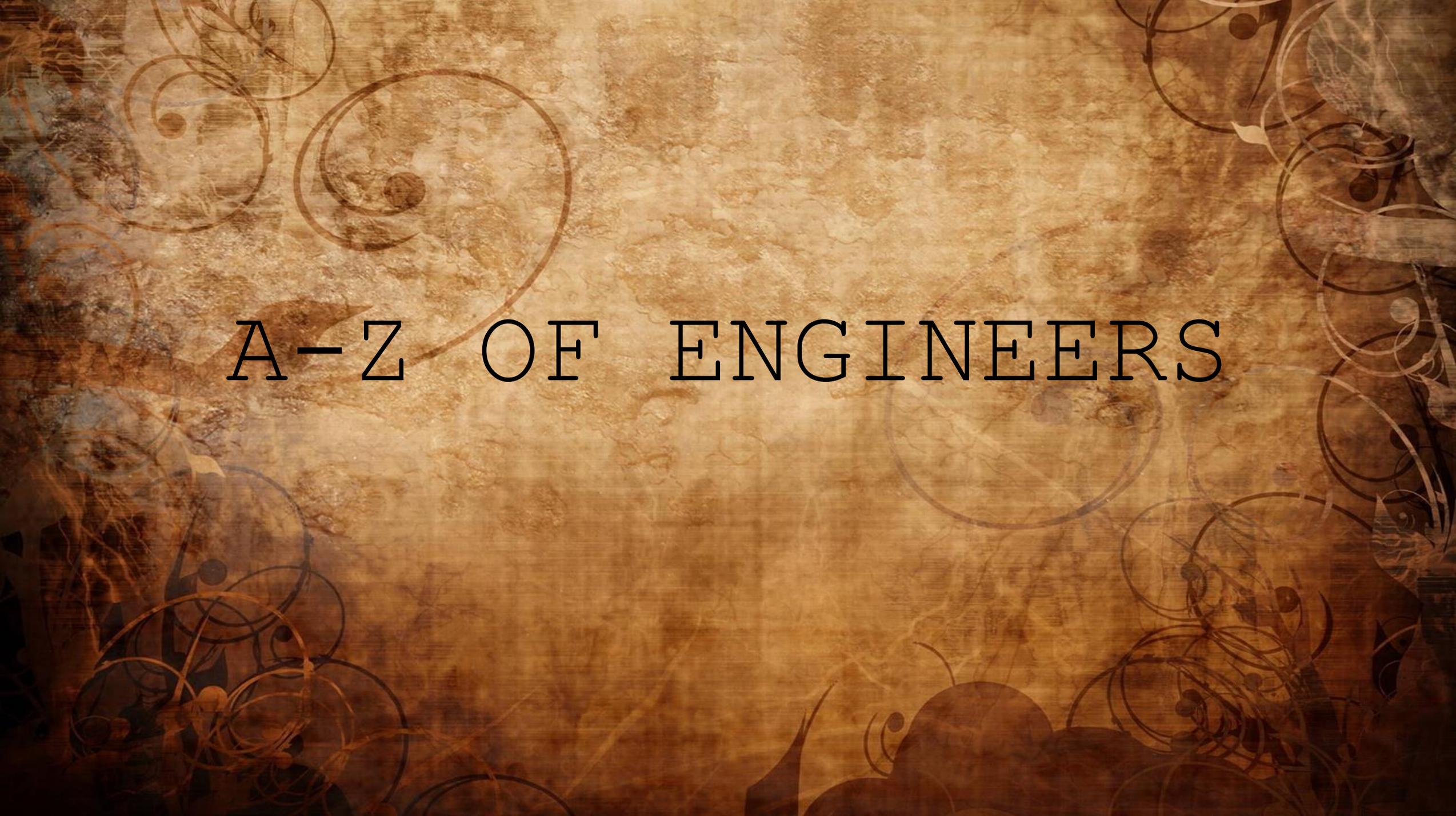


**8JC**

**Engineers**



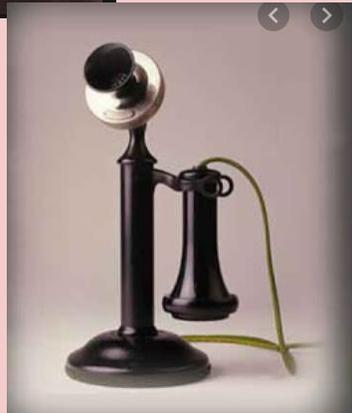
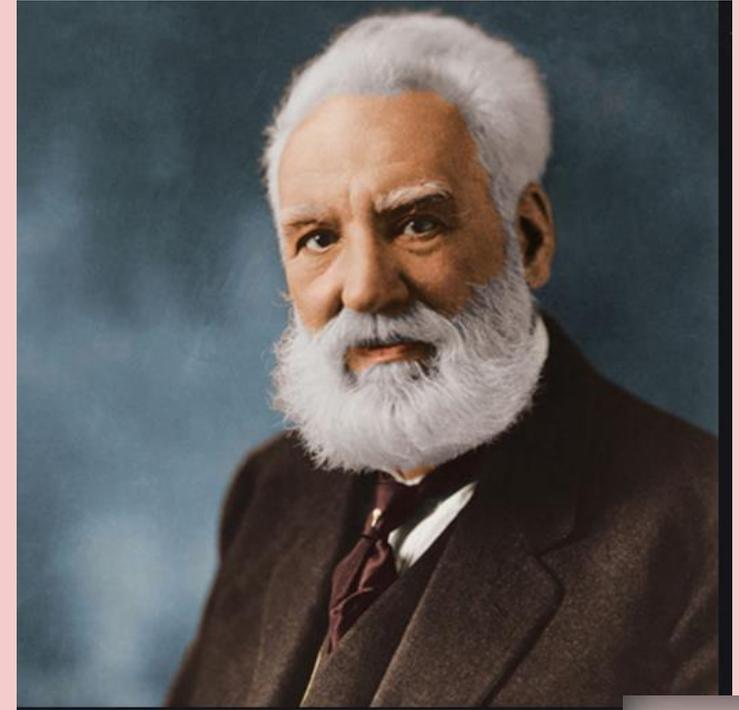
A-Z OF ENGINEERS

# Alexander Graham Bell

Born 3rd March 1847 in Edinburgh he is most famous for inventing the telephone.

He made the first telephone call on January 15th 1915 calling San Francisco from New York. Later in life he also invented the graphophone, the first metal detector and an audiometer which is a device used to detect hearing problems.

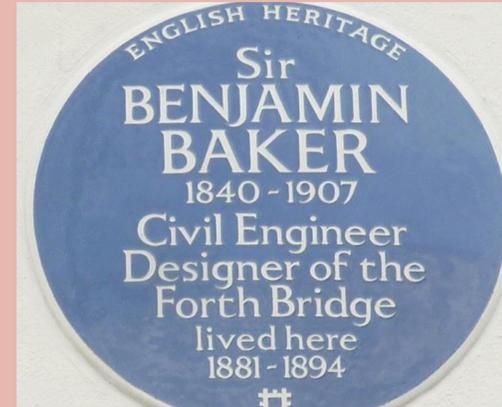
When he died every phone in North America was silenced to honor him.



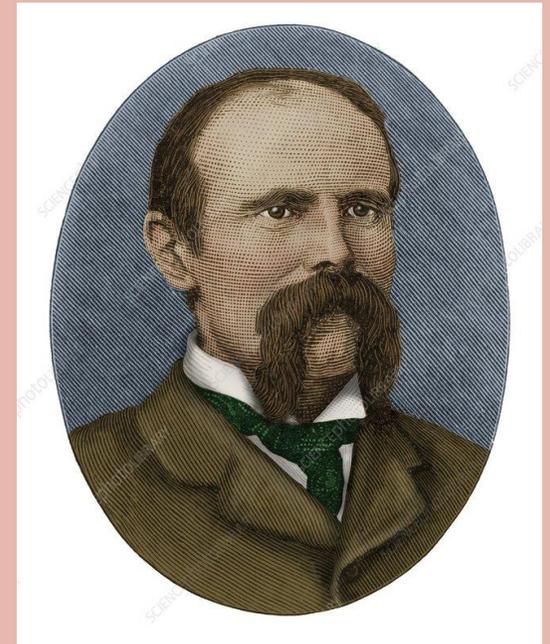
# Benjamin Baker

Benjamin Baker (engineer) Sir Benjamin Baker (31 March 1840 - 19 May 1907) was an eminent English civil engineer who worked in mid to late Victorian era. He helped develop the early underground railways in London with Sir John Fowler, but he is best known for his work on the Forth Bridge.

A slide by  
Emily P



UNDERGROUND



Charles Inglis was a Civil engineer born in 1875 in Worcestershire ,he was the son of a doctor and graduated at Cheltenham college and won a 2 year scholarship to King's college in Cambridge . In the First World War he served in the royal engineers and invented the ingles bridge which was a reusable steel bridge system which intern led to more famous bridges I.e the bailey bridge . In 1916 he was put in charge of design of bridges.He was part of the institution of civil engineers and mechanical engineers and was awarded the telford medal and Charles Parson medals for his work .He was chair of the ministry of war transport , railway modernisation committee in 1946 . He received a knighthood in 1945 for his work .He retired from the royal engineers and then went back to Cambridge university to be a professor and the head of engineering .He died in 1952 in his lifetime he got awarded An OBE and FRS . He also established a steamboat link .



As well as being a famous painter, Leonardo da Vinci invented many useful items, some still in use today. Some of these inventions include the parachute, diving suit, scissors and a machine to produce screws.

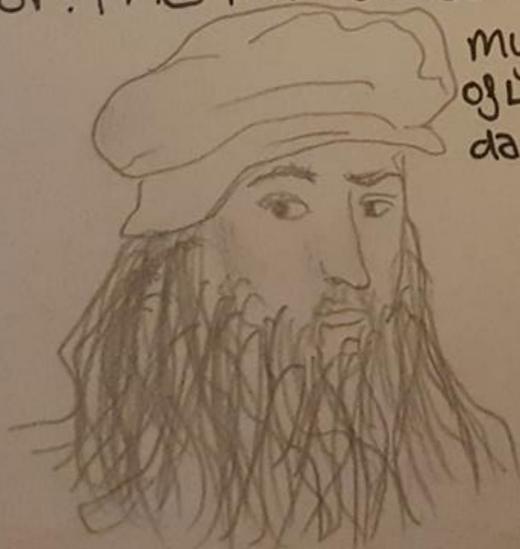


# Leonardo da Vinci

Born: 15<sup>th</sup> April 1452

Died: 2nd May 1519

most famous for: The Mona Lisa.



my drawing  
of Leonardo  
da Vinci

## Facts:

- He was mostly self-educated, he had no education apart from the basics of reading, writing & maths.
- He also had a gift for music!
- His ideas had hardly any influence during that period.
- He spent his final years in France.
- Bill Gates owns his notebook
- He has no real last name!

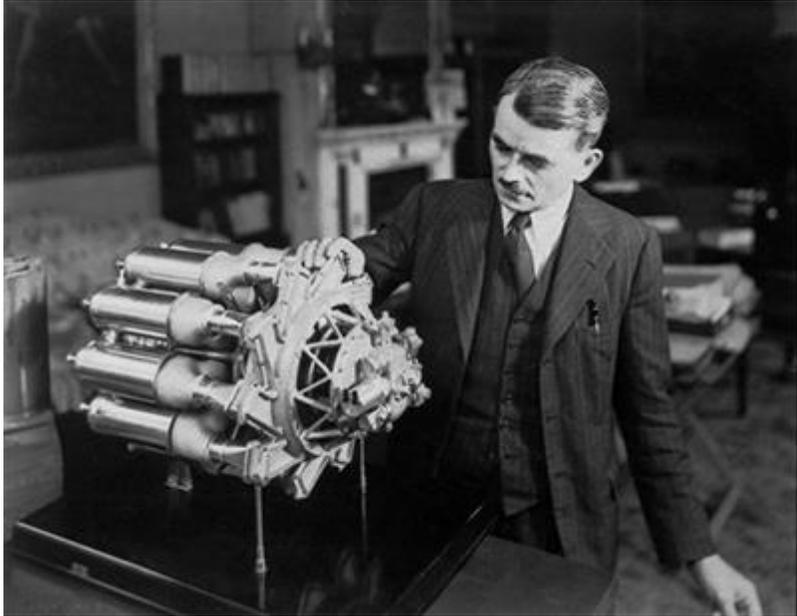
# Edith Clarke



Edith Clarke was a pioneer in electrical engineering who used math to improve our understanding of power transmission. Her most famous contribution was the "Clarke Calculator" in 1921, a graphical device that simplified the equations electrical engineers used to understand power lines. It was patented in 1925.

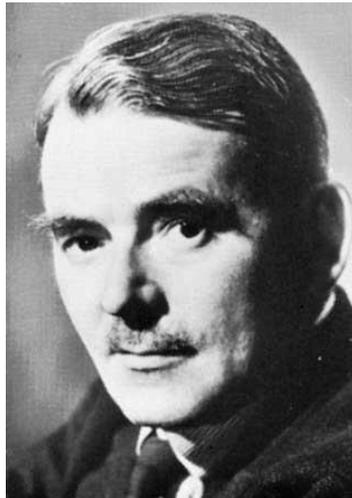
She was born on the 10th February 1883 and died on the 29th October 1959. she was born in Howard County, Maryland, United States and died in Olney, Maryland, United States

# FRANK WHITTLE



**SIR FRANK WHITTLE WAS  
THE INVENTOR OF THE JET  
ENGINE**

**FRANK WHITTLE WAS  
BORN ON THE 1ST JUNE  
1907 AND DIED ON 8TH  
AUGUST 1996 HE IS  
BURIED IN  
WESTMINSTER ABBEY ,  
LONDON**



# Lillian Moller Gilbreth



**Gilbreth** was best known for her work as an industrial engineer and a pioneer in the field of management theory. Her pioneering work in industrial engineering influenced women in the field. In addition to her lectures on various engineering topics, she encouraged women to study industrial engineering and management.

# HENRY FORD

Henry Ford was the founder of FORD the car company and was born in 1863 and died in 1947.



Henry Ford worked at Edison Illumination Company as an engineer and he met Thomas Edison there. He also helped to develop the assembly line (for mass production). Henry formed the Detroit Automobile Company ( which had later on turned into the Henry Ford Company ) but that didn't work out. A few years later he made the Ford Motor Company and that turned out to be successful.

# Imhotep

Imhotep was an Egyptian chancellor to the Pharaoh Djoser, probable architect of the Djoser's step pyramid, and high priest of the sun god Ra at Heliopolis. Very little is known of Imhotep as a historical figure, but in the 3,000 years following his death, he was gradually glorified and deified.

He is known as the first engineer of all time.

There are many myths and legends about Imhotep and is best known to be an Egyptian polymath (a person expert in many areas of learning) architect of King Djoser's step pyramid at Saqqara.



By Fern Oakes



# Jhon Arid



John Airds was an English engineer born on the 3rd of December 1833 and died on the 6th of January 1833 at the age of 77 years old.

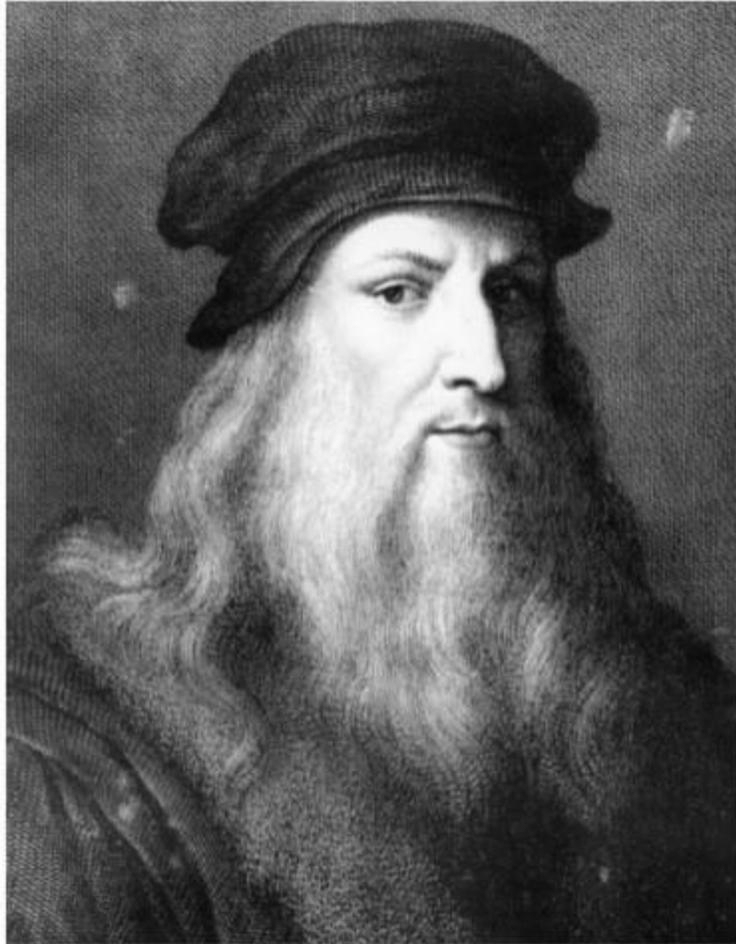
John Arid became associated of the institution of civil engineers in 1859.

# knorr



**Theodor Georg Knorr** (October 19, 1859 in Ruda bei Neumark, West Prussia – April 15, 1911 in Davos, Switzerland), was an engineer and entrepreneur on the field of railroad technology a founder of the company Knorr-Bremse. He is particularly remembered for his role in the development of the compressed air brake.

# Leonardo da Vinci



Description Leonardo da Vinci was an Italian polymath of the High Renaissance who is widely considered one of the greatest painters of all time. The Mona Lisa is the most famous of his works and the most famous portrait ever made



ellen beesley

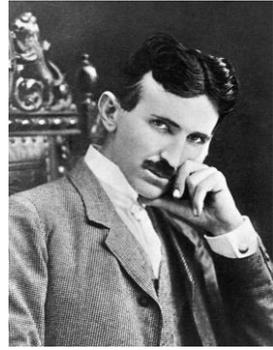
# Mordechai Meirovitz



Mordechai Meirovitz born 1930 in Romania was an israeli telecommunications expert. Meirovitz invented the code-breaking b mastermind. After being rejected by leading games companies, he sparked the interest of a leicester-based company, Invicta Plastics, which restyled and renamed the game. Released in 1971, the game sold over 50 million sets in 80 countries, making it the most successful new game of the 1970s.

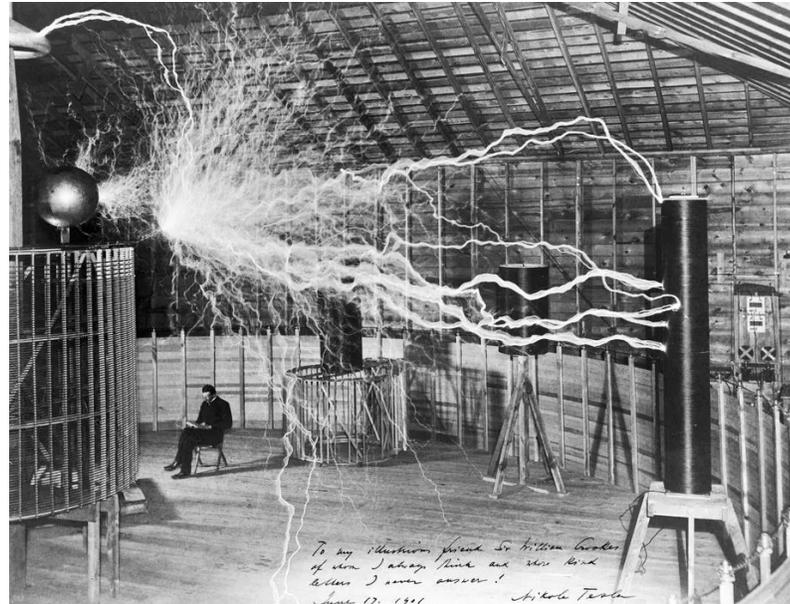
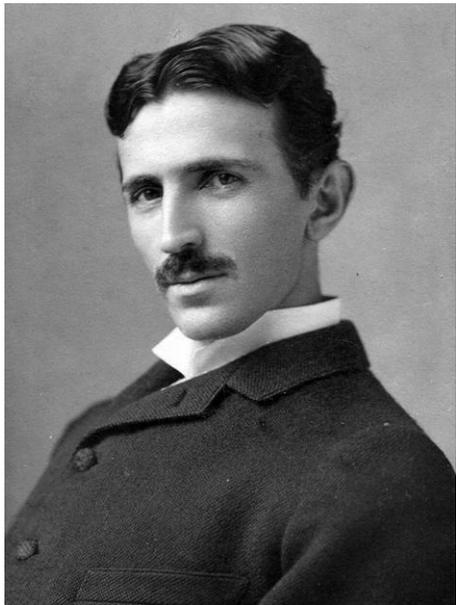
He invented the code-breaking board game Master Mind. After being rejected by leading games companies, he sparked the interest of a Leicester-based company, Invicta Plastics, which restyled and renamed the game.

# Nikola



Phoebe Bruce Tesla

Nikola Tesla is an physicist, futurist, serberbion american inventor, electrical and mechanical engineer. He has contributed a lot to society for example he made the electric light, an alternating current, introduction motor, the radio and also x-arys.



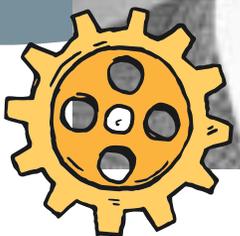
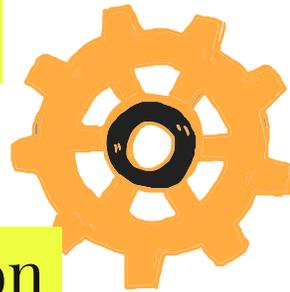
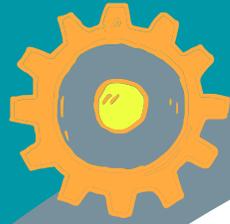
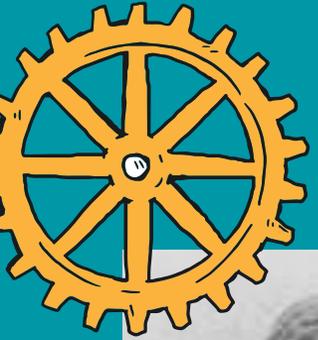
He was born on the 10th of july 1856 he sadly died on january 7th 1943. He was born in smiljan. And died in new york.

# Nikolaus Otto

Nikolaus Otto was a German-born engineer who created the compressed charge internal combustion engines. These, fuelled by petroleum gas, resulted in the creation of the modern internal combustion engine. Apart from the pollution it creates, this technology has been one of the most important technologies for humans.

He was born on the 10th of June in 1832 and died on the 26th of January in 1891.

By Elina Rashad



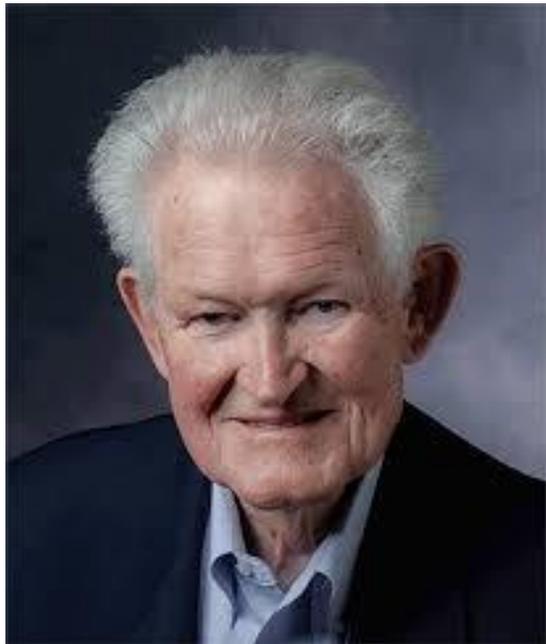
# William N Page

- Born into an old Virginia family near present-day Lynchburg, Virginia about seven years before the American Civil War, William Page became one of the leading developers of West Virginia's rich bituminous coal fields in the late 19th and early 20th century, as well as being deeply involved in building the infrastructure to process and transport the mined coal

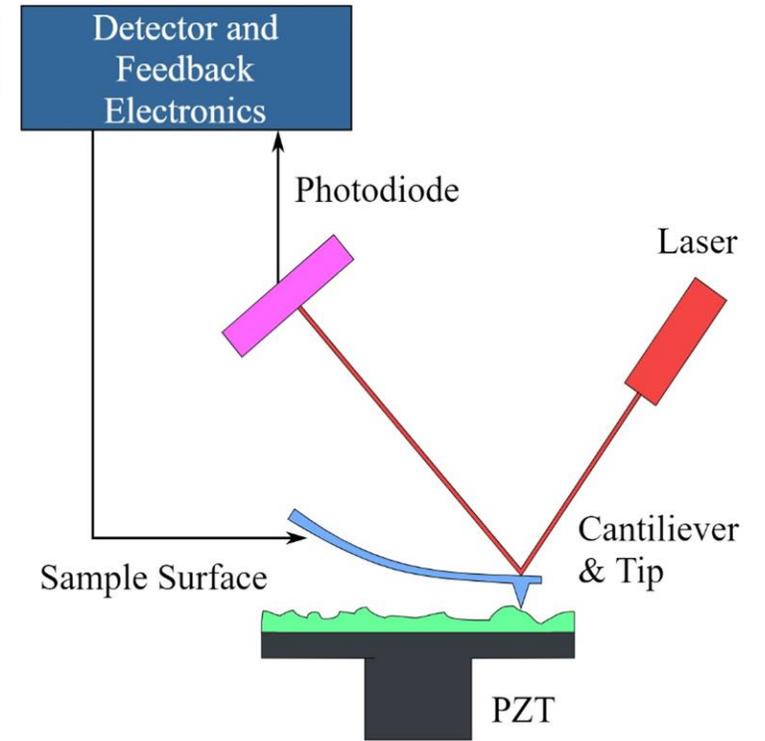


# Calvin Quate

By Izzy Waring



## Atomic Force Microscope



He invented an advanced microscope that changed science. The Atomic force microscope (AFM) is a powerful technique that enables the imaging of almost any type of surface, including polymers, ceramics, composites, glass and biological samples. AFM is used to measure and localise many different forces, including adhesion strength, magnetic forces and mechanical properties.

# Roger Boisly

He was a famous Mechanical engineer and was born on the 25th April 1938.

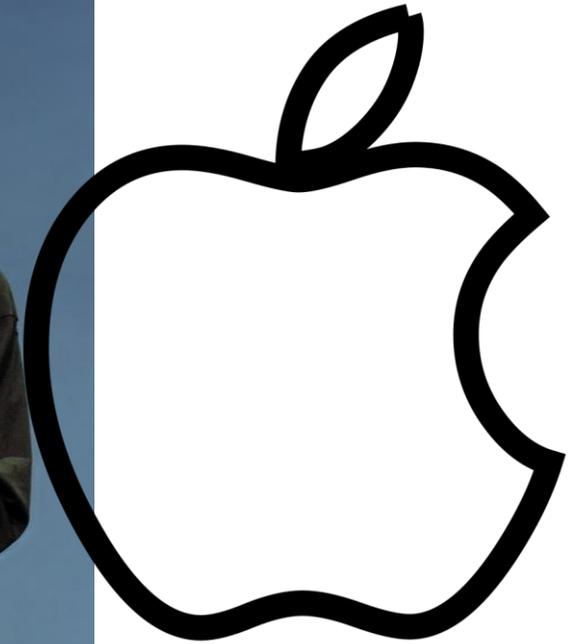
He was from America. He died on The 6th of January 2012



# Steve jobs

Steve jobs invented the iphone, the ipad, the ipod , the Macintosh ( which is now known as the 'Macbook' or the 'imac' ).

Steve was born on the 24th February 1955 and died on the 5th of October 2011.



At the time of his death his net worth was just over \$10 billion and would now be around \$40 billion dollars

# Thomas Edison

Thomas Alva Edison was an American inventor and businessman who has been described as America's greatest inventor. He developed many devices in fields such as electric power generation, mass communication, sound recording, and motion pictures.



He was born on 11 February 1847, Milan, Ohio, United States

And he died on 18 October 1931, West Orange, New Jersey, United States

# *William Unwin*

**William Unwin was born on the 12 December 1838 in Coggshall, Essex and died on the 17 March 1933, Kensington (age 94)**

**William Unwin was a British civil and mechanical engineer. He is known for his extensive work on hydraulics and engines as well as his close association with William Fairbairn. He is one of the few men who served as president of both the Institution of the Civil Engineers and the Institution of the Mechanical Engineers. He served as an engineer advisor for the government during the first world war and was the first recipient of the Kelvin Gold Medal awarded by the Institution of Civil Engineers.**

**Olivia Karahasan**



Vannevar Bush was a famous engineer in WW11 he helped in the scientific and development of weapons he helped in the developing the radar. He also theriosed a device that could be used to compress and store data this later on helped in inventing digital computers and gave inspiration to what they could do.

Vannevar Bush was born on March 11th, 1890. He later suffered a stroke and later died of pneumonia on June 28, 1974.

He left us with the knowledge of the importance of scientific research of national security, economic wellbeing and how what we know as computers could work

# Vannevar Bush



By jessica collins

**VANNEVAR BUSH**  
(1890 – 1974)



The world has arrived at an age of cheap complex devices of great reliability; and something is bound to come of it.

[http://en.wikiquote.org/wiki/File:Vannevar\\_Bush\\_portrait.jpg](http://en.wikiquote.org/wiki/File:Vannevar_Bush_portrait.jpg)

25



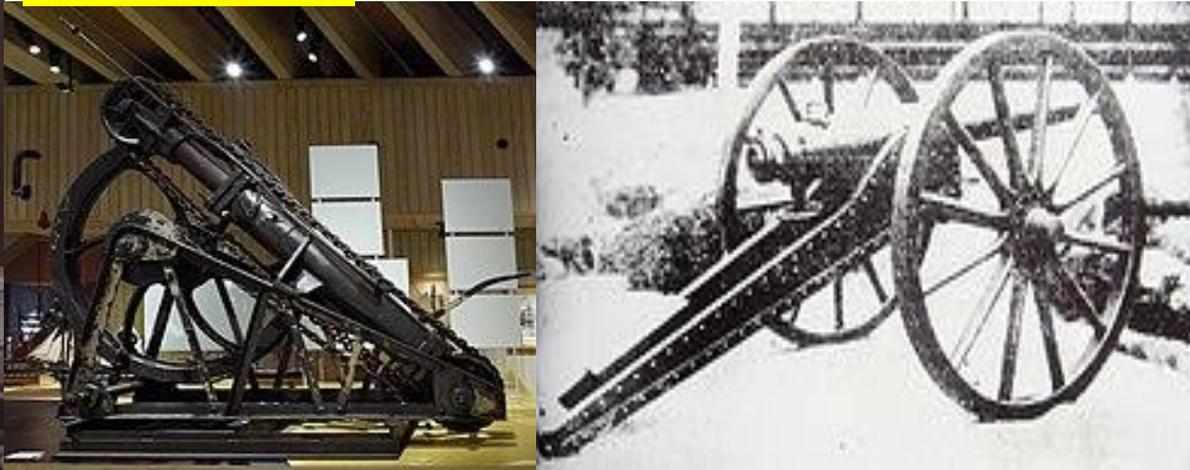
# William George Armstrong



William George Armstrong was an English engineer and industrialist who founded the Armstrong Whitworth manufacturing concern on Tyneside. He was also an eminent scientist, inventor and philanthropist. In collaboration with the architect Richard Norman Shaw, he built Cragside in Northumberland, the first house in the world to be lit by hydroelectricity. He is regarded as the inventor of modern artillery.

Armstrong was knighted in 1859 after giving his gun patents to the government. In 1887, in Queen Victoria's golden jubilee year, he was raised to the peerage as Baron Armstrong of Cragside.

Eda Robertson



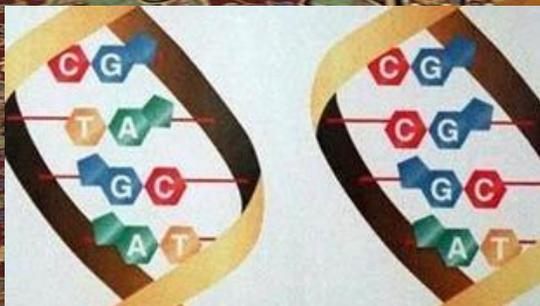
# Xiangzhong Yang



Xiangzhong "Jerry" Yang was a Chinese-American biotechnology scientist, and stem cell research advocate. In 1999 he was credited with creating the first cloned farm animal in the United States – a cow called "Amy".

**Born: 31 July 1959, China**

**Died: 5 February 2009, Boston, Massachusetts, United States**



By Nefeli Tsamili

# Yvonne Clark

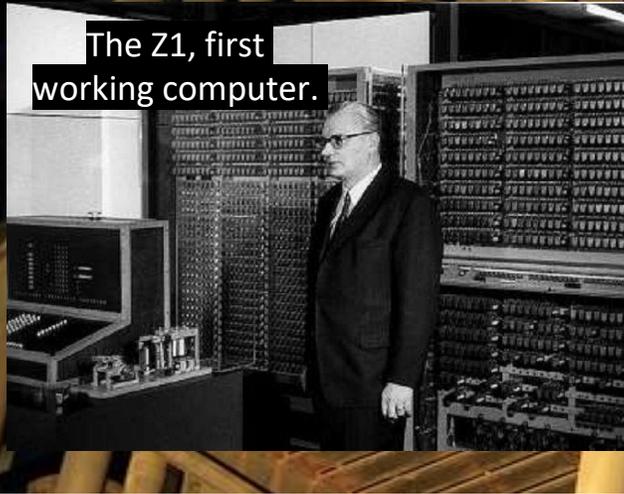


By Madison Scully



Yvonne designed some factory equipment, was the first woman to get a Bachelor of Science degree in mechanical engineering at Howard University, was the first woman to earn a master's degree in Engineering Management from Vanderbilt University, was the first woman to work as a faculty member in the College of Engineering and Technology at Tennessee State University, then an emeritus professor, and she encouraged women to become engineers. Not only did she do these things, but she was an african-american woman working in the 1950s.

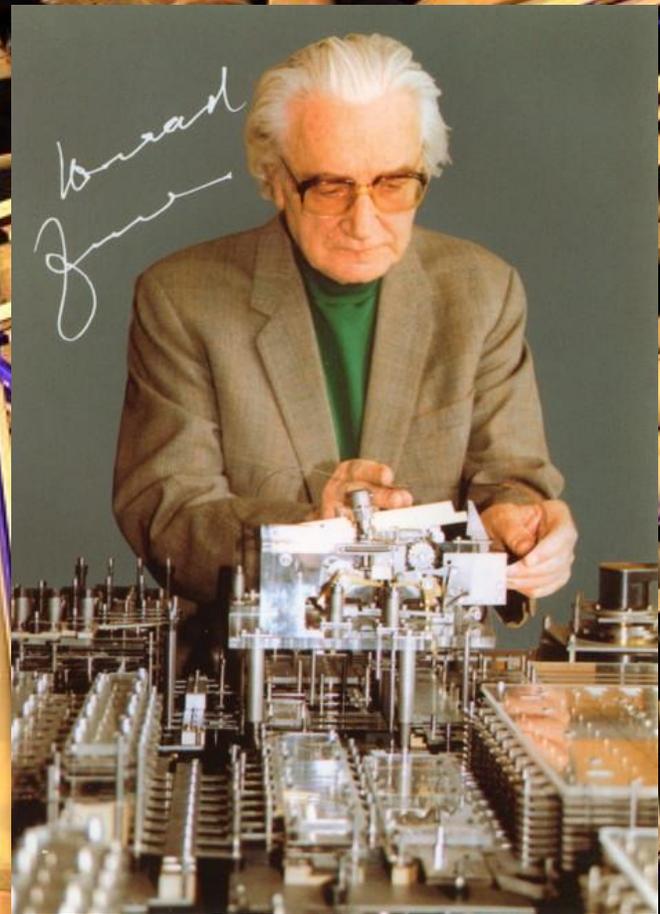
The Z1, first working computer.



# Konrad Zuse

By Abigail Hunt

Konrad Zuse was born on the 22nd June 1910, in Berlin (Germany). They moved to East Prussian Braunsberg where he went to Collegium Hosianum, then in 1928 he qualified for university (he was 18 years old). After his graduation, he worked for the Ford Motor Company. In 1936, he started working in his parents apartment, where he created his first attempt at the Z1. In 1938, he finished the Z1 (it had 30,000 metal parts). However, it was destroyed in World War 2. In 1939, he was given the parts to build the Z2, the Z2 was made by 1940 and the government started funding him and his company. In 1941, he created the Z3 - a better version than the Z1 & Z2. Zuse also created the Z4. Unfortunately, he died in 1995 (aged 85) due to a heart failure, in Germany. He won many awards for his computer making.



**We hope you enjoyed our A-Z of**  
**engineers**



Thank you for your time!