

Alan Mathison Turing

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Professional Profile

Mathematician, logician, and pioneering **computer scientist** with profound contributions to **cryptanalysis**, **mathematical logic**, and the **foundations of computer science**. Key figure in the development of **modern computing** and **artificial intelligence**.

Renowned for conceptualizing the **Turing Machine**, formalizing algorithms and computation, and playing a critical role in **breaking the Enigma cipher** during WWII. Interested in **mathematics**, **theoretical computing**, and **machine intelligence**. Passionate about applying rigorous logic to solve complex real-world problems.

Interests

Mathematical logic, Computability theory, Cryptanalysis, Theoretical computer science, Artificial intelligence, Philosophy of mind, Mathematics.

Work Experience

- **1939 – 1945: Cryptanalyst** @ Government Code and Cypher School (GC&CS), Bletchley Park
 - Led the **Hut 8** team deciphering **German naval Enigma**
 - Developed the **Bombe**, an electromechanical device used to accelerate codebreaking
 - Contributed to the design of early **cryptographic systems** and protocols
- **1945 – 1948: Researcher** @ National Physical Laboratory (NPL)
 - Worked on design of the **Automatic Computing Engine (ACE)**, one of the first designs for a stored-program computer
- **1948 – 1954: Deputy Director of Computing Laboratory** @ University of Manchester
 - Worked on programming the **Manchester Mark I**, an early electronic stored-program computer
 - Pioneered early ideas in **machine intelligence** and **mathematical biology**

Education

- **1931 – 1934: Bachelor's Degree in Mathematics** @ King's College, University of Cambridge
 - Graduated with distinction; elected Fellow for work on **central limit theorem**
- **1936 – 1938: Ph.D. in Mathematics** @ Princeton University
 - Dissertation: *"Systems of Logic Based on Ordinals"*, under Alonzo Church
 - Developed the concept of **oracle machines** and advanced **computability theory**

Hard Skills

- **Fields:** Cryptography, Logic, Computability, Computer Architecture
- **Theoretical:** Turing Machines, Lambda Calculus, Formal Systems
- **Tools:** Bombe (electromechanical device), ACE (architecture design)
- **Mathematics:** Number theory, Algebra, Probability

Soft Skills

- Exceptional analytical and abstract thinking
- Original thinker with capacity to pioneer new fields
- Resilient under pressure in critical wartime conditions
- Effective collaborator in interdisciplinary teams

Languages

- **English** – Native
- **German** – Intermediate (academic reading)

Competitions & Achievements

- **1936:** Published “*On Computable Numbers*”, founding modern computer science
- **1945:** Appointed Officer of the Order of the British Empire (OBE)
- **1950:** Introduced the *Turing Test* in “*Computing Machinery and Intelligence*”
- **2013:** Granted Royal Pardon posthumously by Queen Elizabeth II