

# Alan Turing

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## EDUCATION

### PhD in Mathematics

Princeton , Princeton, United States

### AM in Mathematics

King's College, Cambridge , Cambridge, England

### AB in Mathematics

King's College, Cambridge University , Cambridge, England

## WORK EXPERIENCE

### Deputy Director of the Computing Machine Laboratory

University of Manchester , Manchester, UK

1948 - 1951

- Designed a group of machines to speed up the decryption process.
- Developed a chess program and a baby computer called the Manchester Mark I.
- Proved that every computer program can be represented by a combination of a few simple instructions.

### Head of the Computing Division

National Physical Laboratory , London, UK

1945 - 1948

- Built the world's first electronic computer, the Colossus.
- Estimated to have shorted World War II by two years.
- Proposed the Universal Turing Machine, which revolutionized computational science.

### Cryptanalyst

Government Code and Cypher School , Bletchley Park, UK

1940 - 1945

- Led a team in developing a method to crack the German Enigma machine, saving over 14 million lives.
- Received the Officer of the Order of the British Empire for contributions to wartime intelligence.
- Developed techniques that would lay the foundation for modern computer science and artificial intelligence.

## SKILLS

Problem  
Solving:

Cryptanalysis, Artificial intelligence

## PROJECTS

### Cracking the Enigma Machine

*cryptanalysis, code breaking, War effort*

Worked with the Government Code and Cypher School to aid Britain's efforts in cracking intercepted messages from the Nazi Party. Estimated to have shortened the war and saved over 14 million human lives.

### Turing Test

*artificial intelligence, machine learning*

Created an imitation game to test a machine's ability to exhibit intelligent behavior. Widely influenced the concept of artificial intelligence philosophy.

### First Chess Computer Program

*chess, computer program, Ferranti Mark 1*

Co-wrote a computer program for the Ferranti Mark 1 with DG Cahmpernowne.

## AWARDS

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**Fellow of the Royal Society** *1951-03-21*

The Royal Society

For his contributions to mathematical logic and theoretical computer science

**Order of the British Empire** *1946-06-04*

King George VI

For his services in the development of the Automatic Computing Engine

**Honorary Doctor of Science** *1948-06-22*

The University of Manchester

In recognition of his work on the Electronic Computer Pilot ACE