ALAN TURING

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WORK EXPERIENCE

Deputy Director of the Computing Machine Laboratory

University of Manchester

1948 | 1951 Manchester, UK

- 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

1945 | 1948 London, UK

- 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

1940 | 1945 Bletchley Park, UK

- 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.

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.

EDUCATION

Princeton

PhD in Mathematics

Princeton, United States

King's College, Cambridge

AM in Mathematics

Cambridge, England

King's College, Cambridge University

AB in Mathematics

Cambridge, England

SKILLS

Problem Solving

Cryptanalysis | Artificial intelligence

AWARDS

Fellow of the Royal Society
For his contributions to mathematical logic and theoretical computer science

Order of the British Empire
For his services in the development of the Automatic Computing Engine

Honorary Doctor of Science
In recognition of his work on the Electronic Computer Pilot ACE