

ALAN TURING

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EDUCATION

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| 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 |

WORK EXPERIENCE

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| University of Manchester <i>Deputy Director of the Computing Machine Laboratory</i> | Manchester, UK 1948 - 1951 |
| <ul style="list-style-type: none">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. | |
| National Physical Laboratory <i>Head of the Computing Division</i> | London, UK 1945 - 1948 |
| <ul style="list-style-type: none">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. | |
| Government Code and Cypher School <i>Cryptanalyst</i> | Bletchley Park, UK 1940 - 1945 |
| <ul style="list-style-type: none">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

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| Cracking the Enigma Machine <i>cryptanalysis, code breaking, War effort</i> |
| 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 <i>artificial intelligence, machine learning</i> |
| 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 <i>chess, computer program, Ferranti Mark 1</i> |
| Co-wrote a computer program for the Ferranti Mark 1 with DG Cahmpernowne. |

AWARDS

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| Fellow of the Royal Society For his contributions to mathematical logic and theoretical computer science | The Royal Society 1951-03-21 |
| Order of the British Empire For his services in the development of the Automatic Computing Engine | King George VI 1946-06-04 |
| Honorary Doctor of Science In recognition of his work on the Electronic Computer Pilot ACE | The University of Manchester 1948-06-22 |