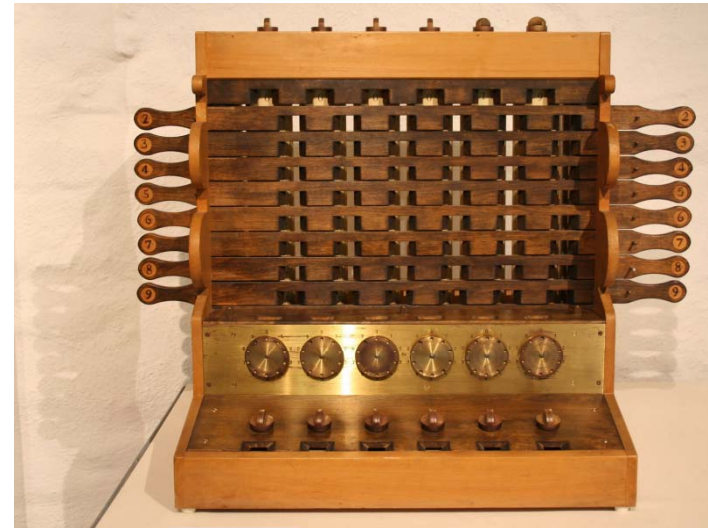# Konrad Zuse

Der Erfinder des Computers
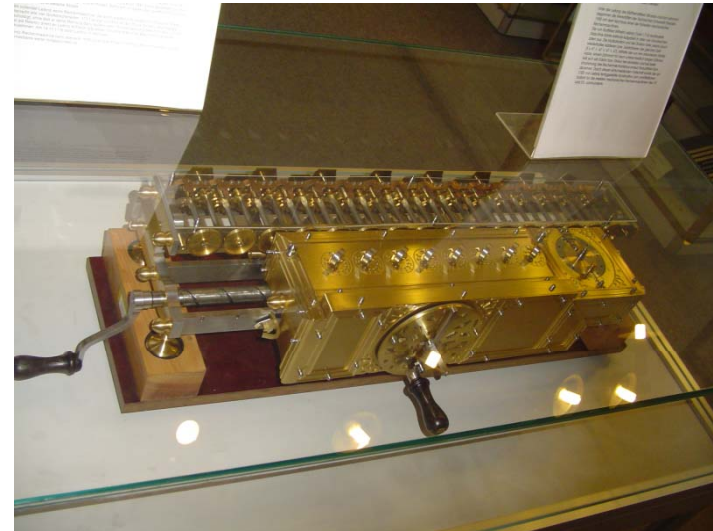
But, didn't...

- … Wilhelm Schickard invent the computer already in the 17th century?

… or wasn't it…

- … Gottfried Wilhelm Leibniz already in the 18th century?

… or maybe…
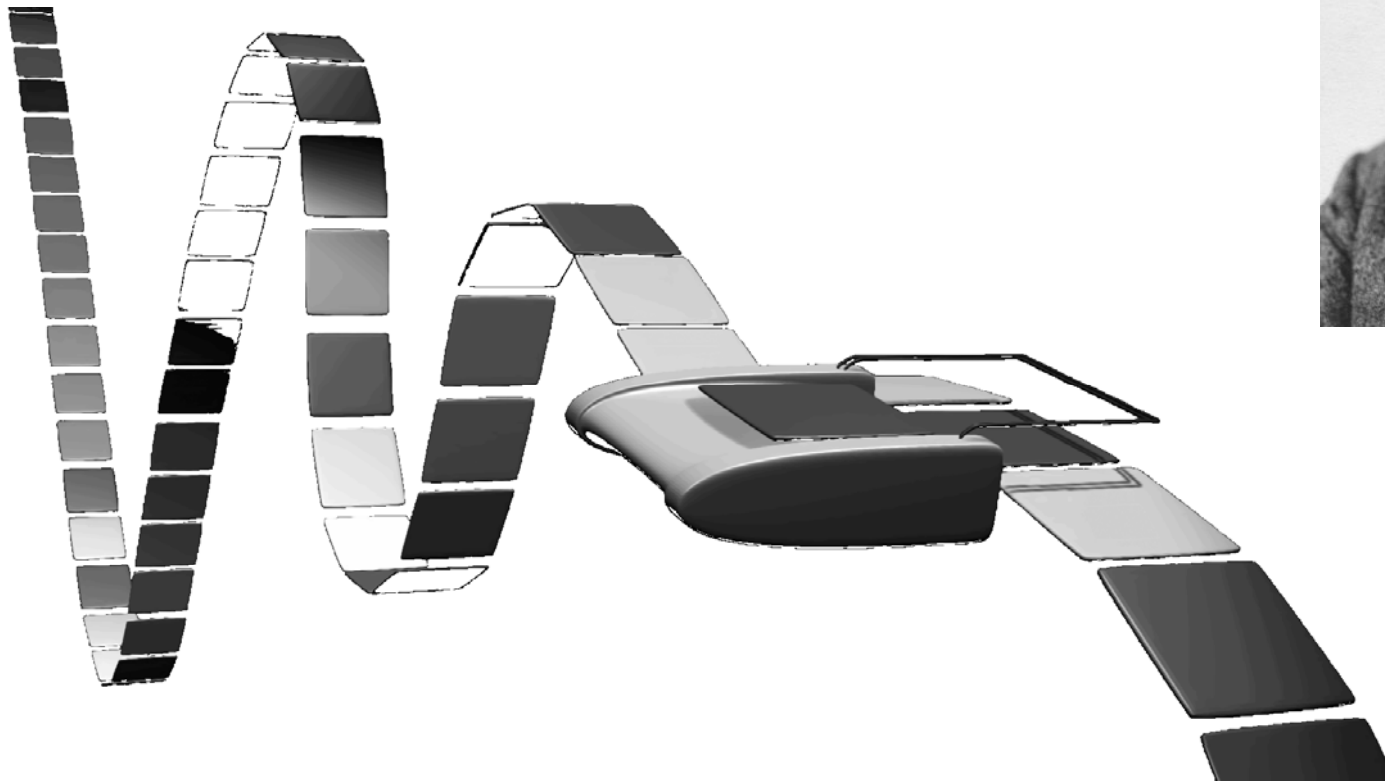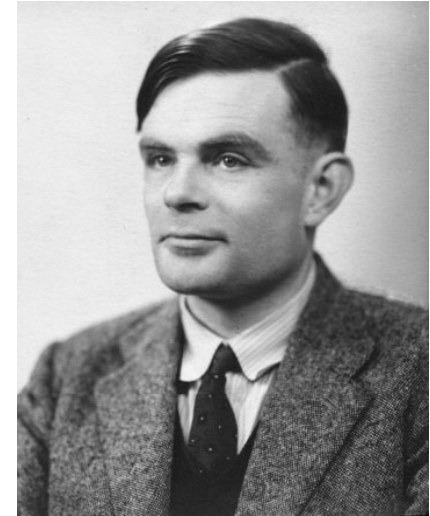
- … Charles Babbage in the 19th century?

Schickard, Leibniz, Babbage et al. …

- … invented calculating machines!

- A *calculator* is a device used to perform the basic operations of arithmetic.

- A *computer* is a programmable machine that receives input, stores and manipulates data, and provides output in a useful format.

Computer aka Turing Machine

- Conceived in 1936 by Alan Turing

Konrad Zuse

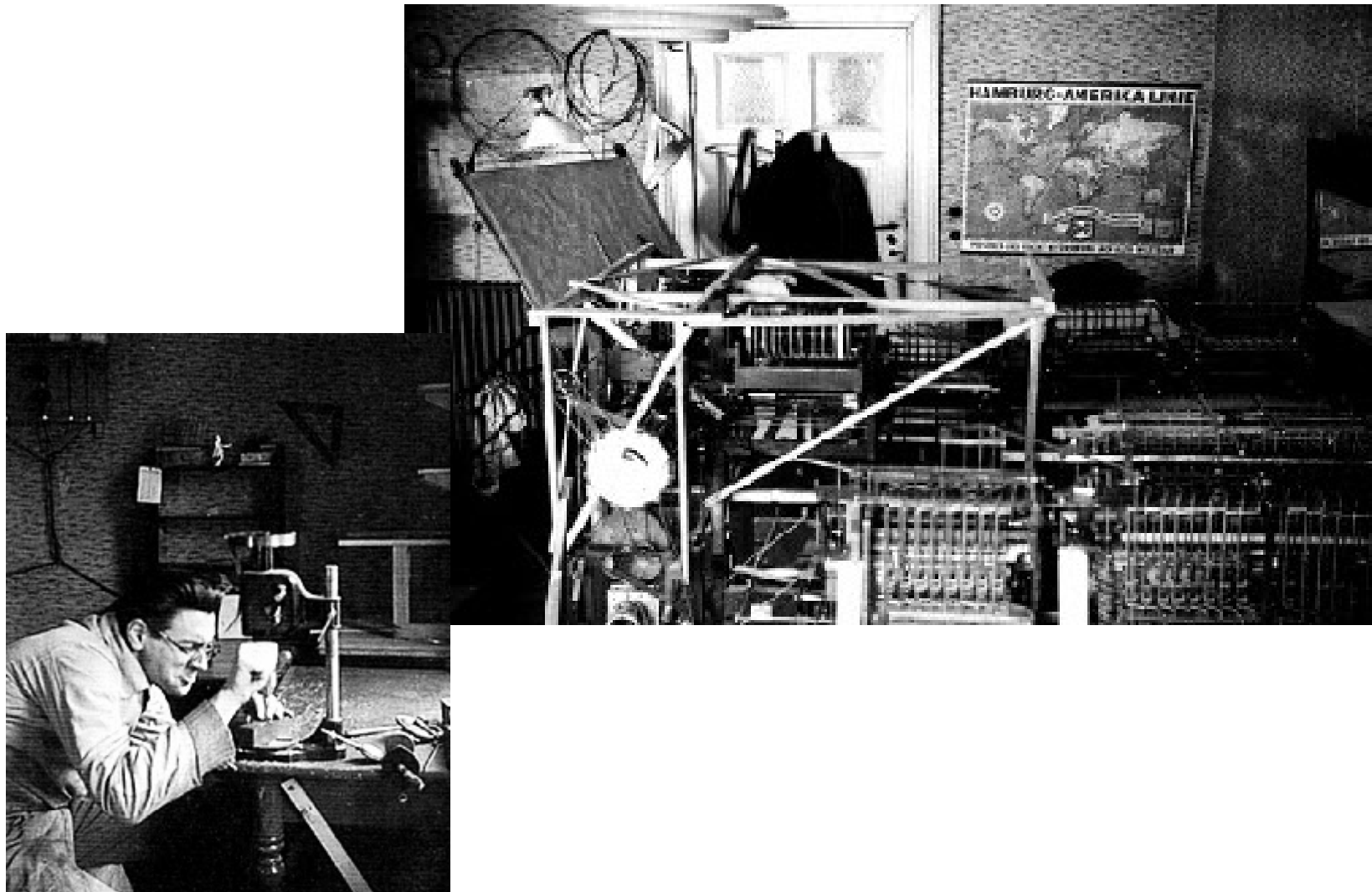Inventor of the first functional program-controlled Turing-complete computer

Konrad Ernst Otto Zuse

- * 22 June 1910 in Berlin

- 1912 moved to Braunsberg

- 1923 moved to Hoyerswerda

- 1941 founded company in Berlin
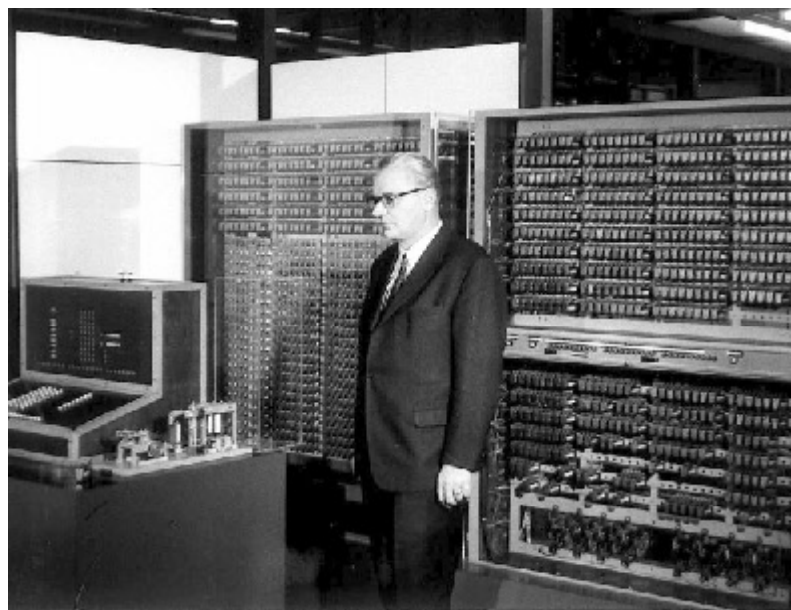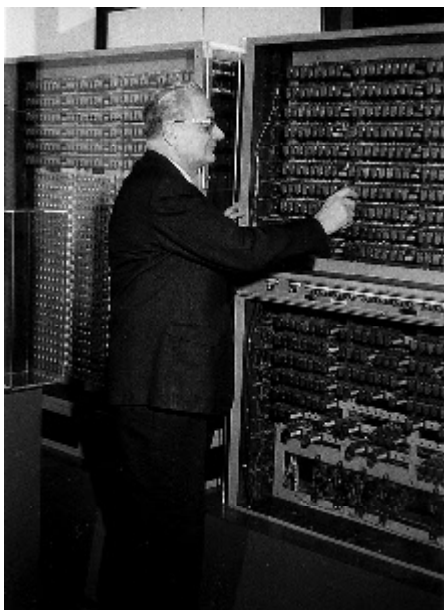
- † 18 December 1995 in Hünfeld n. Fulda
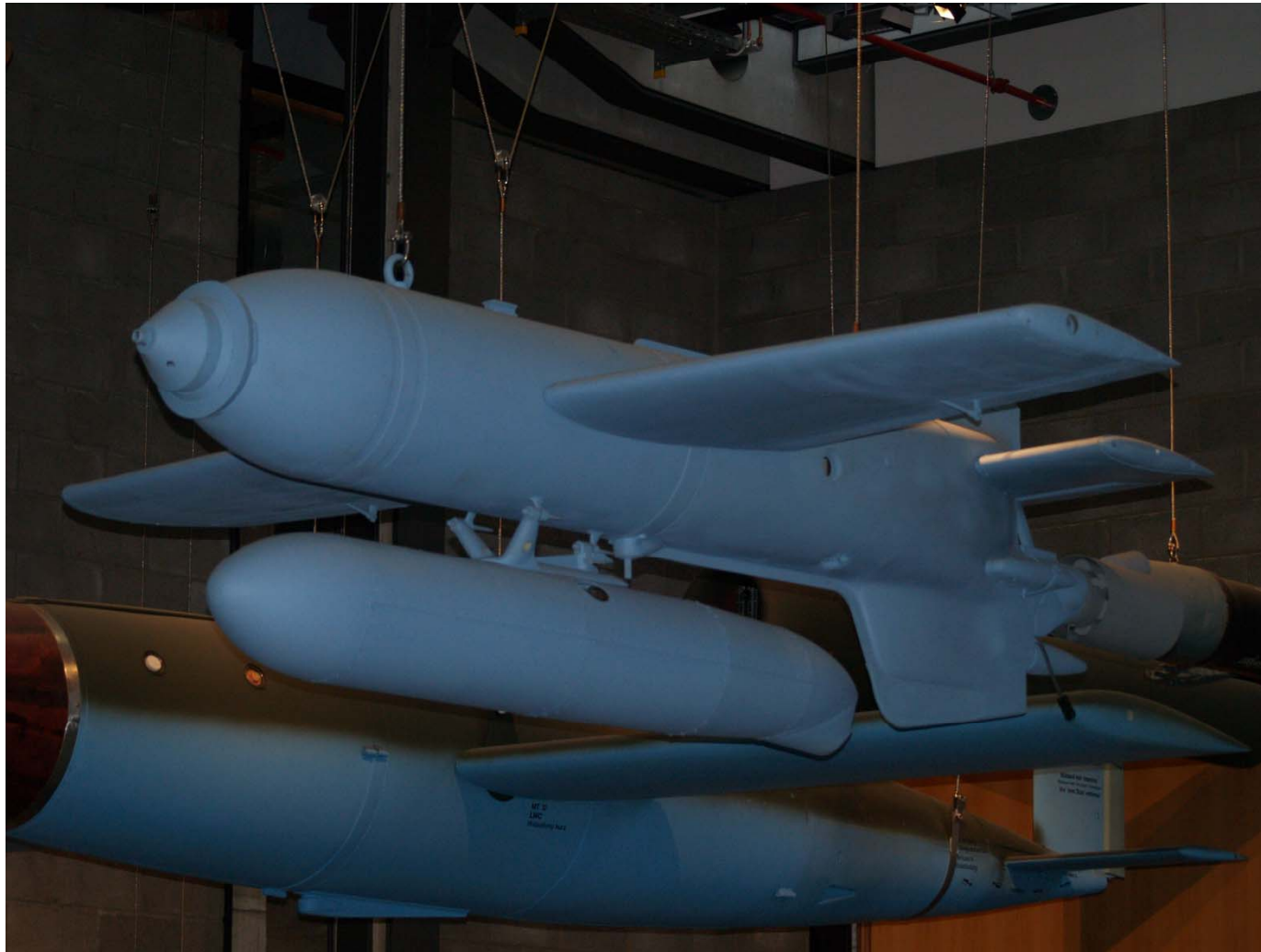
The Z1 in Zuse's living room

Z1 replica in Berlin

Zuse in front of a Z3 replica

An Hs 293 glide bomb

The Plankalkül

- The world's first high-level von Neumann programming language

```
P1 max3 (V0[:8.0],V1[:8.0],V2[:8.0]) => R0[:8.0]
max(V0[:8.0],V1[:8.0]) => Z1[:8.0]
max(Z1[:8.0],V2[:8.0]) => R0[:8.0]
END
P2 max (V0[:8.0],V1[:8.0]) => R0[:8.0]
V0[:8.0] => Z1[:8.0]
(Z1[:8.0] < V1[:8.0]) -> V1[:8.0] => Z1[:8.0]
Z1[:8.0] => R0[:8.0]
END
```

Zuse KG

Z4 in Munich

Z22 in Karlsruhe

Graphomat Z64

Calculating Space

Konrad Zuse, *Großstadt,* 1964

Konrad Zuse

Inventor of the von Neumann architecture

Inventor of the most widely used representation of floating point numbers

Founder of the world's first computer company

Inventor of the first functional program-controlled Turing-complete computer

Inventor of the first analog-to-digital converter

Inventor of the first process-controlled computer

Contributor to first cruise missile

Inventor of the first high-level programming language

Seller of the first functioning computer

Inventor of the first plotter

Inventor of the calculating space view on the world