



In 1945, von Neumann proposed a description for a computer architecture now known as the [von Neumann architecture](#), which includes the basics of a modern electronic digital computer including:

- A processing unit that contains an arithmetic logic unit and processor registers;
- A control unit that contains an instruction register and a program counter
- A memory unit that can store data and instructions;
- External storage; and
- Input and output mechanisms;

**THE STORED PROGRAM COMPUTER WAS REVOLUTIONARY AND HAS FUELED ALL THE DIGITAL TECHNOLOGY THAT HAS TOUCHED OUR LIVES
IN THIS COURSE YOU WILL VENTURE INTO ITS HEART AND THEN BE READY TO LOOK FOR YOUR OWN REVOLUTION**

