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computer design refers to the process of creating and designing computer systems hardware components and digital devices it involves the development of computer architecture circuit design and the integration of hardware and software components

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1 fundamentals of computer design 1 1 introduction the concept of stored program computers appeared in 1945 when john von neumann drafted the first version of edvac electronic discrete variable computer those ideas have since been the milestones of computers an input

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component parts it can sometimes be a high level description that ignores details of the implementation 2

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there are four major types of computer design detailed below 1 hardware design hardware design is a section of computer design focused on the development testing and integration of physical components for computers and related equipment such as keyboards computer mice speakers number pads and cameras

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cad is software specifically to help draft documentation visualize 2d or 3d design concepts using photorealistic renderings simulate real world functionality and export cad data to computer aided manufacturing cam software working in cad software cad centralizes product design into an automated 3d environment

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computer aided design cad is the use of computers or workstations to aid in the creation modification analysis or optimization of a design 1
3 this software is used to increase the productivity of the designer improve the quality of design improve communications through
documentation and to create a database for manufacturing

the first computer charles babbage s analytical engine

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but the first iteration of the computer as we now understand it came much earlier when in the 1830s an inventor named charles babbage
designed a device called the analytical engine who was charles babbage

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