Mindluster Platform

About the course Computer architecture fundamentals

Computer architecture fundamentals, in this course provides a foundational understanding of computer architecture, focusing on the design and organization of modern computing systems. Learn about the structure and functionality of CPUs, memory systems, and I/O devices. Explore topics such as instruction set architecture (ISA), data paths, control units, and pipeline processing. The course delves into memory hierarchy, including cache and virtual memory, and introduces concepts of parallelism and performance optimization. Through practical examples and hands-on exercises, you'll gain insights into how hardware and software interact to execute tasks efficiently. Ideal for beginners, this course equips you with the knowledge to analyze and design computing systems, laying a solid foundation for advanced studies in computer science or engineering.

Engineering Category's Courses

Course Lesson(2)

Lesson 1 : **Assembly Basics The Language Behind the Hardware**

Lesson 2 : **Computer Architecture Hardware Components Explained**

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