

System Architect Job Description

Duties and Responsibilities:

- Divide large computer systems into partition to allow for easy management by individual engineers
- Interface with implementation and design engineers to handle problems with design concepts or implementation
- Develop sketches, user guides and models to keep end users and system engineers up-to-date on system structure
- Allocate all foreseeable requirements into partitions to ensure minimal communication between subsystems
- Conduct surveys to obtain information regarding client needs and user domain experience
- Plan the structure of a system considering user requirements and cost-benefit scale
- Present system layout to clients for confirmation before design and implementation
- Liaise with developers and hardware engineers to develop an effective system structure
- Conduct acceptance tests to verify if a system is in accordance with fundamental user requirements
- Modify new or already existing system structure to improve efficiency as well as meet client needs
- Maintain accurate records of design operations and steps taken during the structuring of a system
- Update project managers and chief architects on the progress of a design
- Conduct research to determine the effectiveness of off-the-shelf products in building a new system
- Proffer recommendations to clients on ways to ensure an efficient information technology structure
- Maintain architectural products and systems to ensure they remain efficient.

System Architect Requirements – Skills, Knowledge, and Abilities

- **Education and Training:** To become a system architect, you require a Bachelor's degree in information management systems, computer science, computer engineering, or in a related discipline. About 2-7 years of experience in IT administration is also required for the system architect position. Professional certifications from recognized IT institutions serves to increase job prospects
- **Programming Skills:** System architects are well versed in designing and developing computer and networking systems
- **Problem-solving Skills:** System architects are adept at developing architectural systems which meet the needs/requirements of an organization or client
- **Planning Skills:** System architects are skilled in organizing and planning architectural structures to meet cost-benefit specifications.