

Hardware Engineer: Sr. Principal Hardware Engineer

Conducts research, design, development, and testing of digital processing hardware such as computer chips (ASIC, CPLD, FPGA), circuit boards, computer systems, and electrical components. Designs new or modifies existing products, develops technical specifications for production, analyzes hardware configuration and processing solutions, and tests hardware conformance to specifications.

Discretion/Latitude

Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.

Knowledge, Skills and Abilities

Applies advanced technical principles, theories, and concepts. Contributes to the development of new principles and concepts. Widely recognized for achievements, technical expertise and meritorious standing within professional field. Identify, analyze and develop new business opportunities. Establish customer contacts, conduct research and analysis into their future plans and needs, assist with the development of their specifications, develop proposals, and deliver marketing presentations.

Problem Solving

Works on unusually complex technical problems and provides solutions that are highly innovative and ingenious.

Impact

Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and affect the image of the organization's technological capability. Functions in a program leadership role. Plays a key role in implementing programs/projects and makes significant contributions to department goals and overall functional strategic planning efforts.

Liaison

Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications. Often instrumental in attracting and obtaining major new company business.

Minimum Education and Experience

15+ years with BS in designated Engineering or related field. Employees usually have advanced degree in field of specialization.