

Microelectronic/PC Board Technician: Microelectronic/PC Board Technician

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MICROELECTRONIC TECHNICIAN: Performs a variety of duties to support the research and development of new microelectronic, opto-electronic, micro-electromechanical and sensor manufacturing processes, devices, components, or systems, semiconductors, semiconductor-based integrated analog or digital circuits, micro-electromechanical systems, sensors systems and related technologies. Develops and applies inspection and test procedures for micro-components and micro-systems.

PC BOARD DESIGN: Prepares working plans, detailed drawings, and completed mechanical or electrical drawings of printed circuit (PC) board components and assemblies from notes, verbal instructions, and rough or detailed sketches for engineering or manufacturing purposes. Makes engineering computations, write specifications, and make adjustments in drawings and specifications; verifies completed design elements, checks dimensions, materials to be used, and quantities.

Knowledge

Considerable knowledge of the job. Complete acquaintance with, and understanding of, the general and detailed aspects of the job and their practical applications to problems and situations ordinarily encountered. Requires ability to work under Engineering direction in lieu of detailed procedures. Knowledge of RF and Microwave circuit theory, terminology and test techniques. Ability to perform manual RF tuning of circuits. Knowledge of Mil spec 883 test requirements. Ability to use microscope and demonstrate dexterity skills.

Supervision Received

Limited supervision. No instructions needed on routine work and general instructions given on new lines of work or special assignments.

Consequence of Errors

Errors may be difficult to detect and would normally result in loss of customer business, material or equipment to resolve.

Contacts

Contacts are frequent with individuals representing other departments and/or representing outside organizations. Contacts involve obtaining or providing information or data on matters of moderate importance to the function of the department or which may be of sensitive nature.

Work Products (Examples may include but are not limited to)

Electrical schematics, TTL logics devices, oscilloscope, spectrum analyzer, microscope, RF test and tuning methods, test equipment and Mil spec 883 test requirements.

Minimum Education & Experience

4+ Years directly related experience w/ Associate's Degree in Electronics or related field. Advanced MS Word, PowerPoint and Excel Skills.