

Electronic design



Tailor-Made Circuitry

Development and design of custom electronic circuits and PCBs to fulfill unique functionality and performance criteria.

Validation and Troubleshooting

Comprehensive PCB validation and troubleshooting procedures ensure system integrity.

Specialization

Expertise in coding for microcontrollers, microprocessors, and embedded devices.

Performance Optimization

Ensuring efficient operation with minimal resource consumption and energy usage.

Feature Integration

Tailoring firmware to specific client needs, seamlessly integrating custom features.

Technology Assessment

Evaluation and recommendation of hardware solutions aligned with clients' specific requirements.

Customization

Adaptation of hardware solutions to suit the particular needs and preferences of clients.

Power Management Strategies

Implementation of advanced power management techniques to regulate power consumption based on system requirements.



Software development

Updates and Maintenance

Providing ongoing support, including firmware updates and maintenance to align with client requirements.

Debugging and Issue Resolution

Proficiency in identifying and resolving firmware issues for enhanced system stability.

Firmware Porting

Adapting firmware for compatibility across different hardware platforms.

Proto and Batch production



Client Engagement Focus

Use of rapid prototypes to engage clients and stakeholders, facilitating visualization and understanding during the design phase.

Swift Model Creation

Focus on rapidly developing models or prototypes for quick exploration of design solutions.

Proto and Batch Production

Capability to produce and deliver small to medium quantities of fully assembled and tested PCBs.

Testing and Evaluation

Rigorous testing and evaluation of prototypes to verify functionality, form, and ergonomics, identifying potential issues and improvements.

Resource Efficiency

Utilization of rapid manufacturing processes to avoid premature mass production of costly components before design validation.

Experimentation with Emerging Technologies

Opportunity for experimentation with new technologies and materials without committing to expensive mass production processes.

Automated Test Systems (ATS)

Streamline testing processes by executing predefined tests on electronic components, PCBs, or entire systems.



Automatic test system

Automatic Reporting

Generate detailed reports on test results automatically for documentation and analysis.

Reproducible Testing

ATS ensures reproducibility, minimizing human intervention variability for consistent results.

Adaptability and Scalability

ATS are adaptable to different test types and scalable for various production sizes.

Functional and Stress Testing

Conduct functional tests to ensure intended operations and stress tests for long-term reliability assessment.

Integration with Production Systems

Integrate ATS into production processes for full automation aligned with mass production.

Contact us

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