



**Full Turnkey Electronics Product
Design & Development**



Ideation

- Product Market Research
- 3D Scanning
- Reverse Engineering
- VA & VE Analysis

Hardware Design

- Schematic Design
- Component Verification
- Benchmarking & Reverse Engg

PCB Layout Design

- Libraries Creation
- Layout design & Verification
- DRC(Design Rule Check) as per IPC 2221

Firmware Development

- Embedded C, C++
- Linux Driver configuration
- Bootloader & Application Development

Circuit Analysis & Simulation

- Worst Case Circuit Analysis
- Signal & Power Analysis
- RF - Simulation
- Heat Transfer Analysis

Testing & Validation

- Unit Testing
- Functional Testing
- Hardware in Loop
- CAN Diagnostics Testing

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Concept Development

- Design for Automation
- Knowledge based engineering
- Design Optimization

Detailed Design

- DFMEA, DFSS
- Final CAD 3D design
- GD&T, Stack up Tolerance, DFM

Virtual Design Validation

- CFD & FEA
- Linear & Non-Linear Analysis
- NVH & Crash
- Thermal Analysis

Functional Testing

- Hardness Test
- EMC Test
- Impact & Durability
- Non-destructive Test