



Founded on Strong values of Integrity and passion for technology, Electrify has emerged as a trusted global business partner in the field of Product Engineering and Process Improvement consulting services.

- **PRODUCT DEVELOPMENT**
- **LEAN SOLUTIONS**

ELECTRIFYING SUCCESS TOGETHER

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PRODUCT DEVELOPMENT

- *PRODUCT ENGINEERING*
- *HARDWARE ENGINEERING*
- *PCB DESIGNING*
- *EMBEDDED SOFTWARE*
- *SOFTWARE DEVELOPMENT*

LEAN SOLUTIONS

- *PROJECT MANAGEMENT*
- *OPERATIONAL EXCELLENCE*
- *LEAN MANUFACTURING*
- *LEAN COACHING*

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HARDWARE ENGINEERING SERVICES

- **HARDWARE PROTOTYPE DEVELOPMENT & TESTING**
- **PRODUCT ARCHITECTURE & DESIGN**
- **LOW POWERED BATTERY-OPERATED DESIGN**
- **RE-ENGINEERED CUSTOMIZED SOLUTIONS**
- **BOM OPTIMIZATION**
- **ANALOG AND DIGITAL CIRCUIT DESIGN**
- **SCHEMATIC ENTRY & DOCUMENTATION**
- **LIBRARY DEVELOPMENT AND MAINTENANCE**
- *PCB DESIGN WITH ALTIUM AND CADSTAR TOOLS*
- **MULTI-LAYER PCB DESIGN (UP TO 26)**
- **HIGH-FREQUENCY RF PCB DESIGNS**
- **LENGTH MATCHING AND IMPEDANCE-CONTROLLED DESIGNS**
- *HDI, MICRO VIA, BLIND VIA, BURIED VIA*
- *CAM FILE OUTPUT GENERATION*
- *PROFESSIONAL FABRICATION DOCUMENTS*

HARDWARE ENGINEERING SERVICES

MECHANICAL DESIGNING

- Product & Component 2D & 3D drawing development and Optimization
- Fixture & Tooling Designing, Development, and Prototyping
- 3D Printing, SLA Printing & Mass Manufacturing
- Testing and Validation



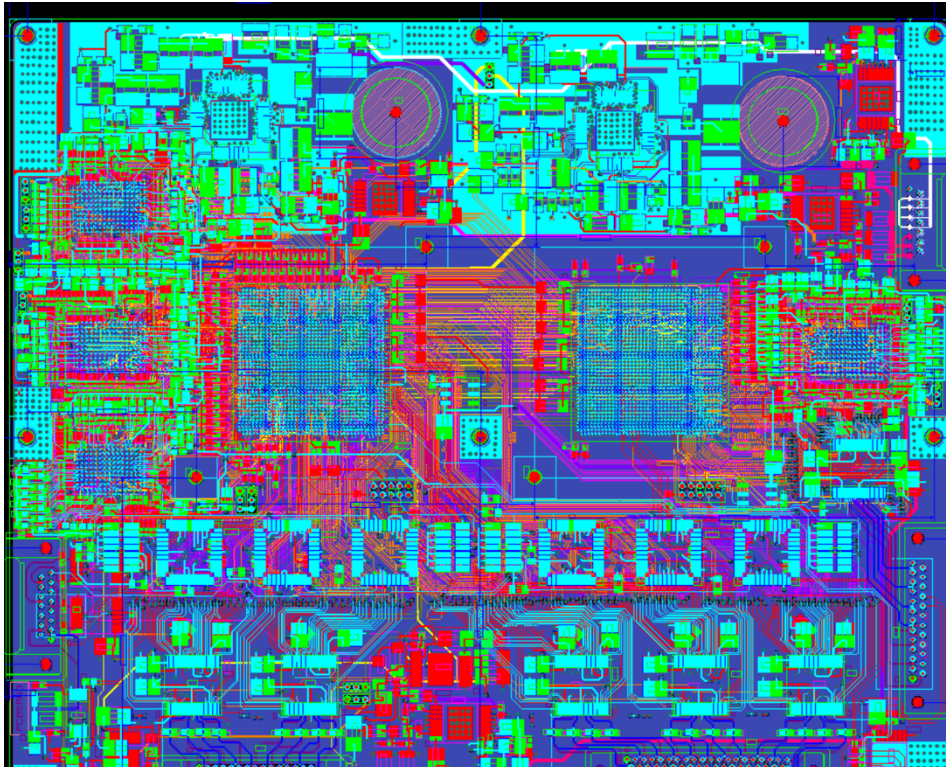
creo®



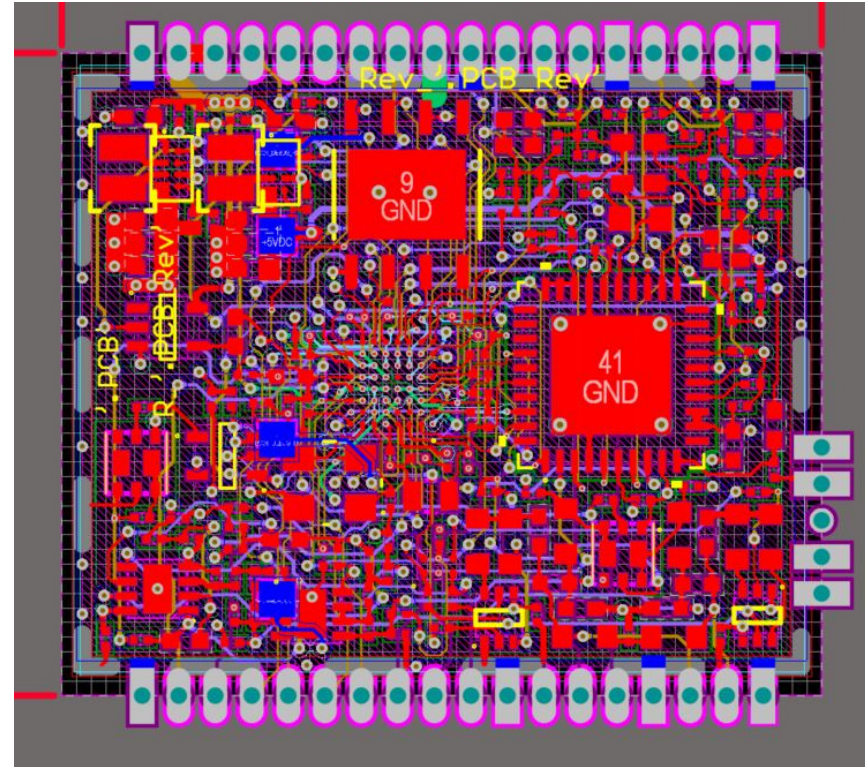


ELECTRIFY
SERVICES

HARDWARE ENGINEERING PROJECTS



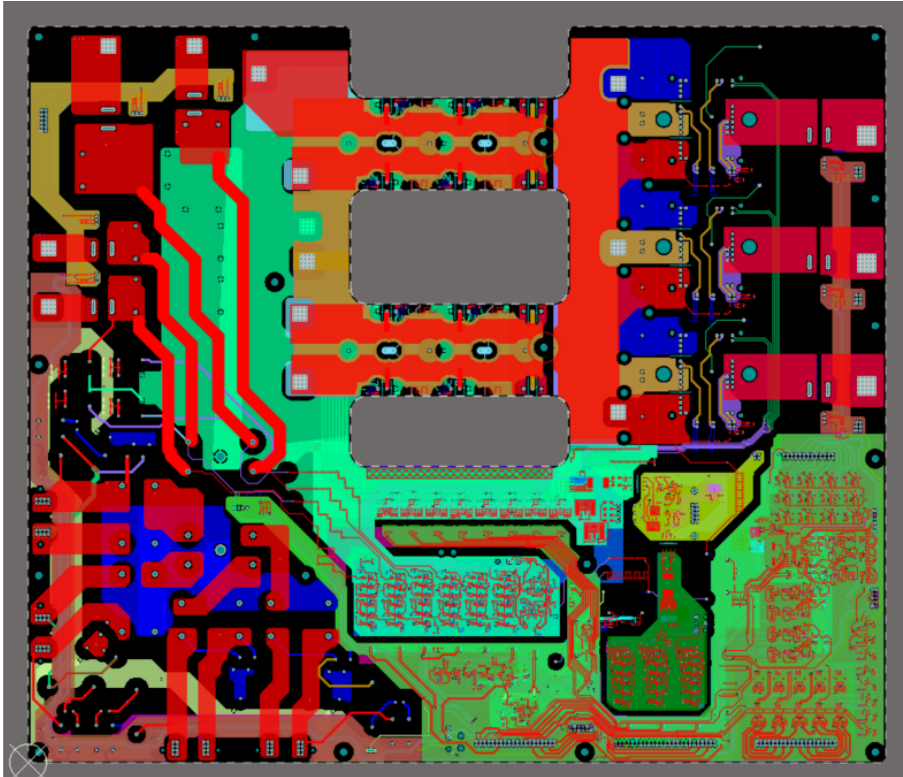
CADSTAR



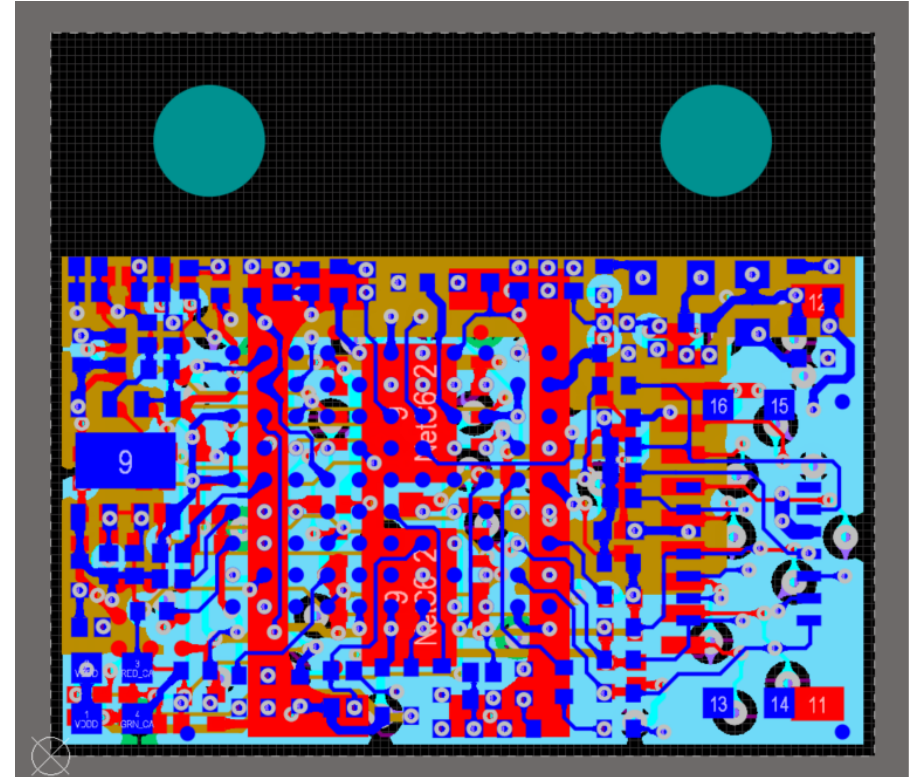
Altium
Designer

- WE HAVE DESIGNED PCBs UP TO 26 LAYERS

HARDWARE ENGINEERING PROJECTS

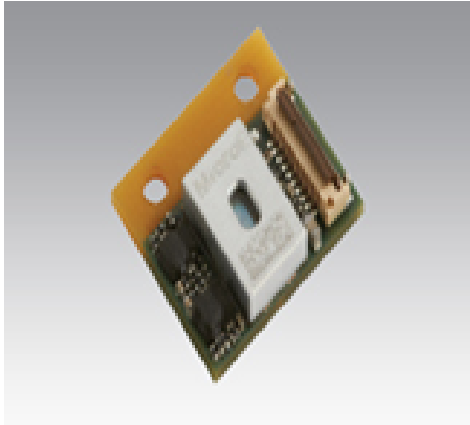


Solar Inverter: Boost converter board: 14kW output power, 530 mm X 455 mm

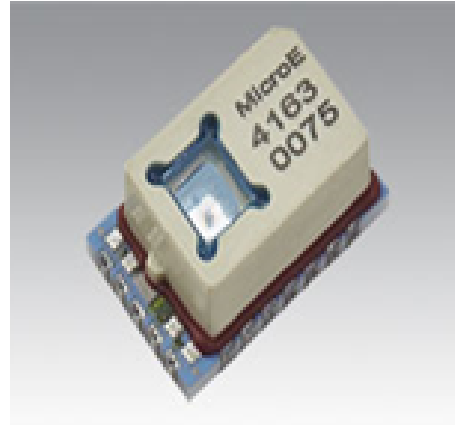


**Encoder, 8 layers, blind via and buried via
11 mmX 13 mm**

HARDWARE ENGINEERING PROJECTS



OPTICAL ENCODERS



SOLOR INTERVERTER



SMART STREETLIGHT CONTROLLER



TEMPERATURE DATA LOGGER



SPECTRORADIOMETER



HOME AUTOMATION - SMART LOCK

PLATFOEMS WE USE

CADSTAR

Altium[®]
Designer

3D SOLIDWORKS

KiCad

A AUTODESK[®]
AUTOCAD[®]

CS
EAGLE

 **creo**[®]

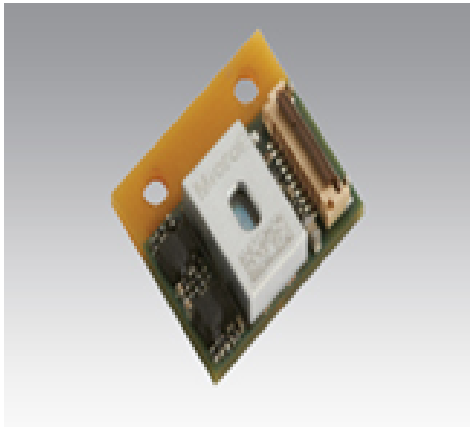
EMBEDDED ENGINEERING SERVICES

- EMBEDDED SOFTWARE AND APPLICATION DEVELOPMENT, IMPROVEMENT & MANAGEMENT
- 8/16/32/64-BIT PROCESSOR/MICRO-CONTROLLERS ARCHITECTURE
- ALGORITHM DEVELOPMENT
- FPGA DEVELOPMENT & TESTING WITH VERILOG AND VHDL
- EMBEDDED SYSTEM INTEGRATION
- BOOT LOADER DEVELOPMENT
- DEVICE DRIVER/INTERFACE DEVELOPMENT
- OTA PROGRAMMING
- NEW PLATFORM ADOPTION / FIRMWARE MIGRATION
- GRAPHICAL USER INTERFACE (GUI) DESIGN
- RTL IMPLEMENTATION
- BOARD BRING-UP

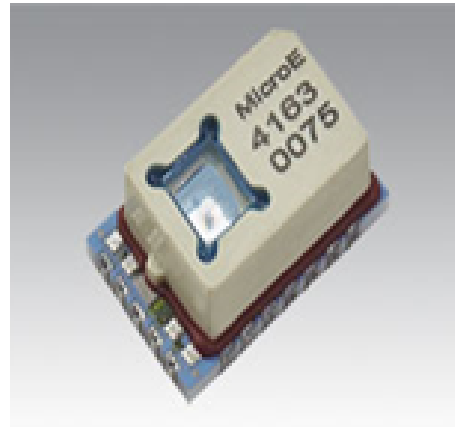
EXPERIENCED IN PROTOCOL STACK IMPLEMENTATION

- BLE
- TCP/IP
- MOD BUS
- MQTT
- WI-FI
- ZIGBEE PRO
- LORAWAN
- USB

EMBEDDED ENGINEERING PROJECTS



OPTICAL ENCODERS



SOLOR INTERVERTER



SMART STREETLIGHT CONTROLLER



TEMPERATURE DATA LOGGER

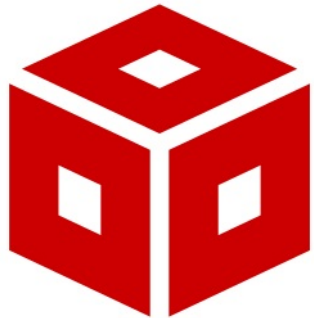


SPECTRORADIOMETER



HOME AUTOMATION - SMART LOCK

PLATFORMS WE USE



LABVIEW PROGRAMMING SERVICES

- PROVIDING LABVIEW AND TEST STAND DEVELOPMENT SUPPORT.
- MIGRATING YOUR EXISTING LABVIEW APPLICATION TO LABVIEW NXG.
- OPTIMIZING EMBEDDED PROGRAMMING WITH LABVIEW REAL-TIME AND FPGA.
- MACHINE VISION HARDWARE SELECTION AND APPLICATION DEVELOPMENT.
- PYTHON PROGRAMMING FOR INTERFACING MODULAR INSTRUMENTS.
- EXISTING CODE MODIFICATIONS
- TRAINING



SOFTWARE ENGINEERING SERVICES

- **SOFTWARE DEVELOPMENT, IMPROVEMENT & MANAGEMENT**
- **APPLICATION DEVELOPMENT, IMPROVEMENT & MANAGEMENT (WEB & DESKTOP)**
- **IOS & ANDROID APPLICATION DEVELOPMENT**
- **SOFTWARE TESTING (MANUAL & AUTOMATED)**
- **SYSTEM INTEGRATION SERVICES**
- **SOFTWARE & HARDWARE INTEGRATION**

SOFTWARE PLATFORMS WE USE

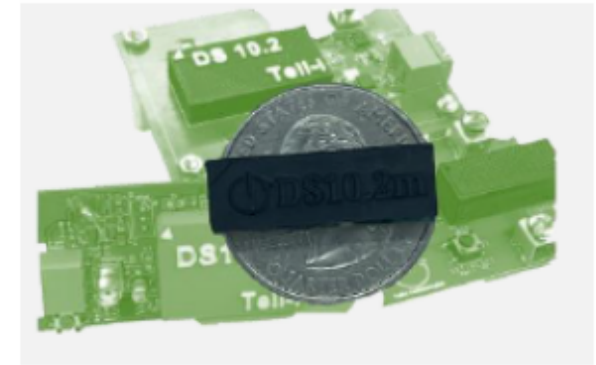


PRODUCT FUNCTIONALITIES

| Product | Hardware | Firmware | Web Application | Certification |
|-----------------------------------|--|--|---|--|
| Battery Management System for EVs | Power modules 10 kW o/p Power | 1.CAN Connections 2.Used Mosfet 3.Standard protection switches functionalities | N/A | N/A |
| Smart Lock | 1.Battery Operated Device - Low powered 2.Board Size -50mm X 50mm | 1.BLE + WIFI 2. OTA Updates | 1. iOs Application 2. Anroid Application | None |
| Temperature Data Logger | 1.Battery Operated Device - 2AA 2.Board Size -70mm x 40mm | 1.BLE + WIFI 2. OTA Updates 3. Frequency Transmission @900Mhz | 1. iOs Application 2. Anroid Application | 1.FCC 2.Thermal Testing 3.IP Test (Water & Dust Test) 4.Fall & Vibration Testing 5.ESD & EMC |

Tell-i Ultra 10.2m current sensor

- Measures ac & dc
- Replaces typical shunt resistor
- WBG Circuit Protection



Ultrafast current sensor for GaN



- Dynamic range & Non-invasive
- Measurement Accuracy < 2 %
- competitive with Wbg Semiconductors - SiC & GaN
- Seamless integration with Power Electronics circuits

Designed by Tell-i Technologies -USA
Manufactured & Brought to you by Electrify - India



PROJECT MANAGEMENT SERVICES

SUPPLY CHAIN OPTIMIZATION

- Components Sourcing & Supplier Development
- Inventory Management & Optimization

LEAN MANUFACTURING

- MFG. Engineering & Process integration Projects

HARDWARE DEVELOPMENT

- Tooling and Fixture Design and Development Projects

QUALITY ENGINEERING

- Yield enhancement & Supplier quality management Projects



TEAM ELECTRIFY

- **HARDWARE ENGINEERS-3**
- **FIRMWARE ENGINEERS-2**
- **MECHANICAL ENGINEER-1**
- **MANUFACTURING ENGINEER-1**
- **HARDWARE TEST ENGINEER-1**
- **PROJECT MANAGER - 1**
- **SOFTWARE ENGINEERS-3**
- **ALTIVUM PCB DESIGNER- 2**
- **TECHNICAL WRITER-1**
- **FIRMWARE TEST ENGINEER-1**

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OUR GLOBAL CLIENTS



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Let's Build Partnership

