

# COMPANY PROFILE

**Kurolikar Automation  
Research Labs Pvt. Ltd.**

# Introduction

**KUROLIKAR AUTOMATION RESEARCH LABS PVT LTD** is product research and development company with more than 10 years of presence in industry.

We have very strong technical expertise with highly qualified technical workforce. Our research team is lead by an IIT Bombay alumnus who has over 14 years of experience in design and development of embedded systems, web applications and native software development. Our product development is lead by an engineering grad of Pune university and has over 12 years of experience in control and instrumentation domain. We have strong support from technical experts from IIT and industries through which we aim to deliver excellence in technological area.

At KARLPL, we are bind to give more than 100% to cater the need of customer with complete customer satisfaction. While we are committed to provide best products, we are also committed to provide timely support services for smooth running of your business.

## OUR VISION



We strive to lead the industries through continuous research and product development that will ultimately result in customer satisfaction.



# Inhouse Facilities

- Application software development
- Firmware development close to hardware such as device drivers / bare metal development
- Circuit schematic design
- PCB design and development
- Inhouse SMD assembly for prototyping purpose (No volume production)
- Equipment's for inhouse testing of circuits

# Legitimate Licenses

- Basic infrastructure (Windows OS, MS Office)



- PCB Design Software's  EAGLE



- Software development (Visual studio 2013, 2017, 2019)



- Hardware design, Hardware simulation, 3D Modeling (AUTODESK)



- Firmware development (Microchip MPLAB, NXP MCUXPRESSO)



- Capable to procure new licenses if required



# Design Strength

- Designed and developed more than 500 boards.
- Experts in embedded design, general purpose digital circuits.
- Good hand on analog signal conditioning, Signal isolation etc.
- Experience of power electronics design (excluding magnetics)
- Experience of designing for EMI/EMC compliance, FCC compliance.
- Up to 4 layer of board design.
- High speed digital interfaces such as USB, HDMI, LVDS, ETHERNET signaling.

## Firmware Development

- Completed more than 1000 firmware projects ranging from MCS51 family controller up to ARM CORTEX A7.
- Good knowledge of real time concepts, very strong with bare metal development.
- Vast experience with NXP and Microchip controllers.

# Power Electronics

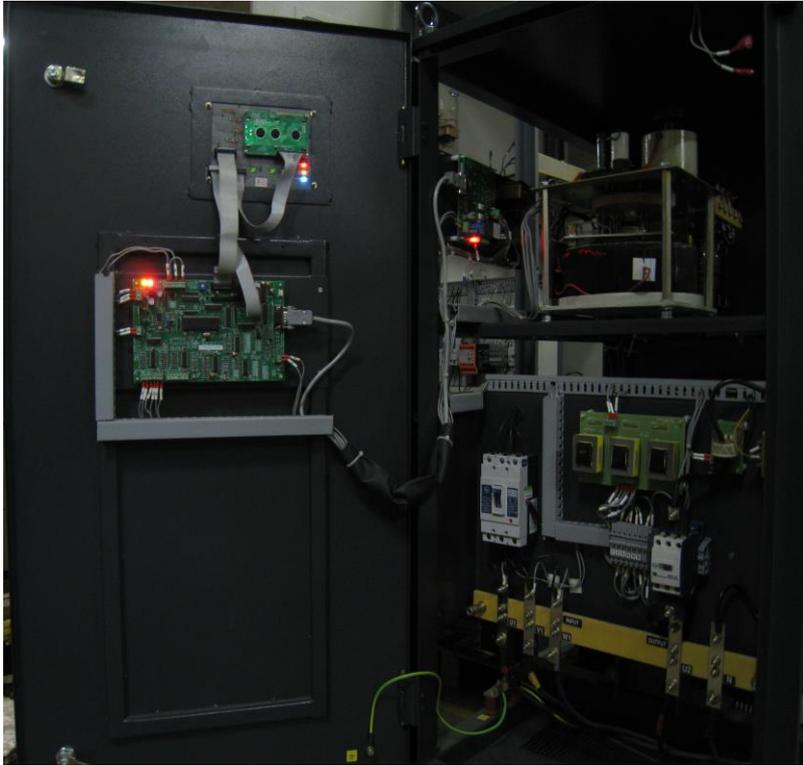


**Servo controlled voltage corrector**  
designed for Rishab  
Industries (Bulk manufactured for  
Emerson Network Power,  
Neowatt systems)

Design consultants for

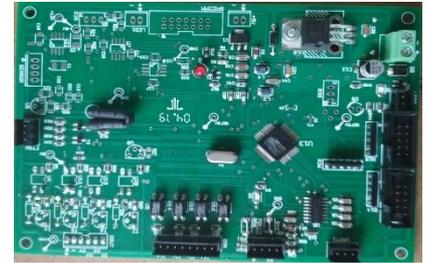
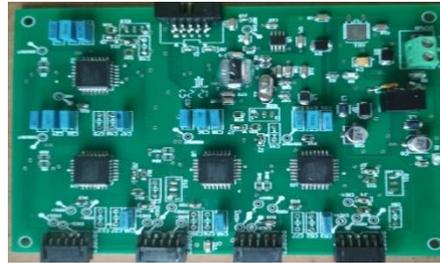
- Power factor correction panels
- Isolation panels
- Servo controlled voltage correctors
- Solid state voltage correctors

# Power Electronics



# Development Boards

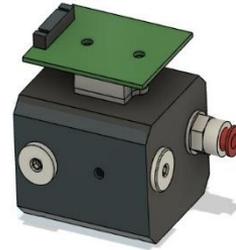
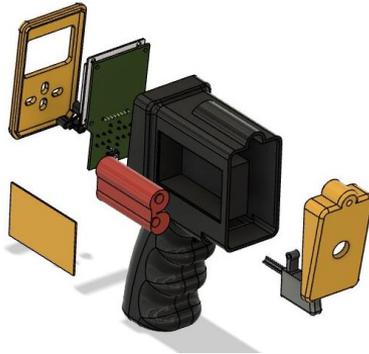
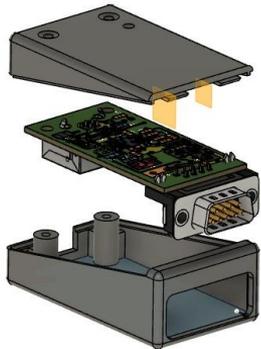
## Some of Development Boards



And Many More ...

# Developed Products

## Some of Developed Products



And Many More ...

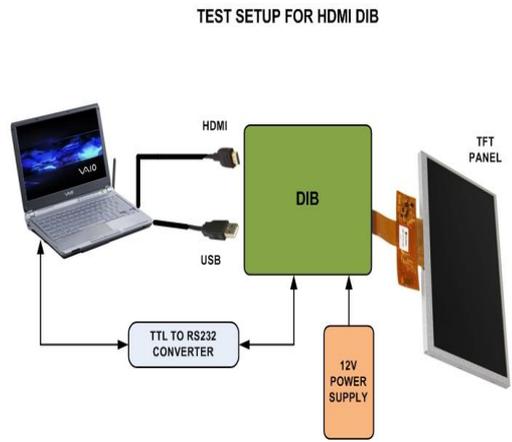


# Application Software

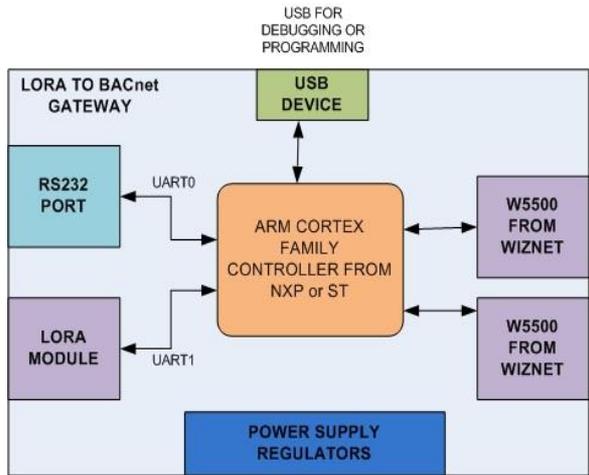
- Completed more than 350 software projects (Application software, Library components)
- Machine monitoring and control with various industrial communication protocols
- Basic image processing, Graphic rendering, Trigonometric implementations etc.
- Traceability with barcode printers, scanners, marking machines, RFID devices etc.
- Very strong hand on hardware interaction, pseudo real-time applications, multi-threading etc.
- Device communication over Serial ports, Ethernet port and USB
- Database interfacing with SQL Server, Local DB, SQLite, SQL Server Compact Ed

# Feature Story

- HDMI



## ZURN Lora to Back Net Gateway



## Mecho Shade



And Many More ...



# Our Happy Customer



And Many More ...

# Contact Us

## **Kurolikar Automation Research Labs Pvt Ltd.**

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