BIRD ELECTRONICS PRIVATE LIMITED

We design and manufacture embedded controls

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Focus areas

IOT

For Industrial, Commercial and Professional Applications
Using BLE Mesh, SubGhz

BLDC

BLDC Motor Controls, AC Induction Motor Controls like Single phasing preventers, Overload Relays, Auto starts, Soft starts

Beyond Borders – Without Compromises

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Focus areas

Fire Alarms We have considerable experience and contacts in this industry

Consumer Our success story on controls for Mosquito repellents – 15 Million+ Numbers produced in 9 months,

We are open to licensing our designs for production

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Design Process

Project always starts with an Idea

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Design Process

Idea is converted into detailed specifications and a contract is signed.
It can be a Design + Production contract or Design+ Royalty contract

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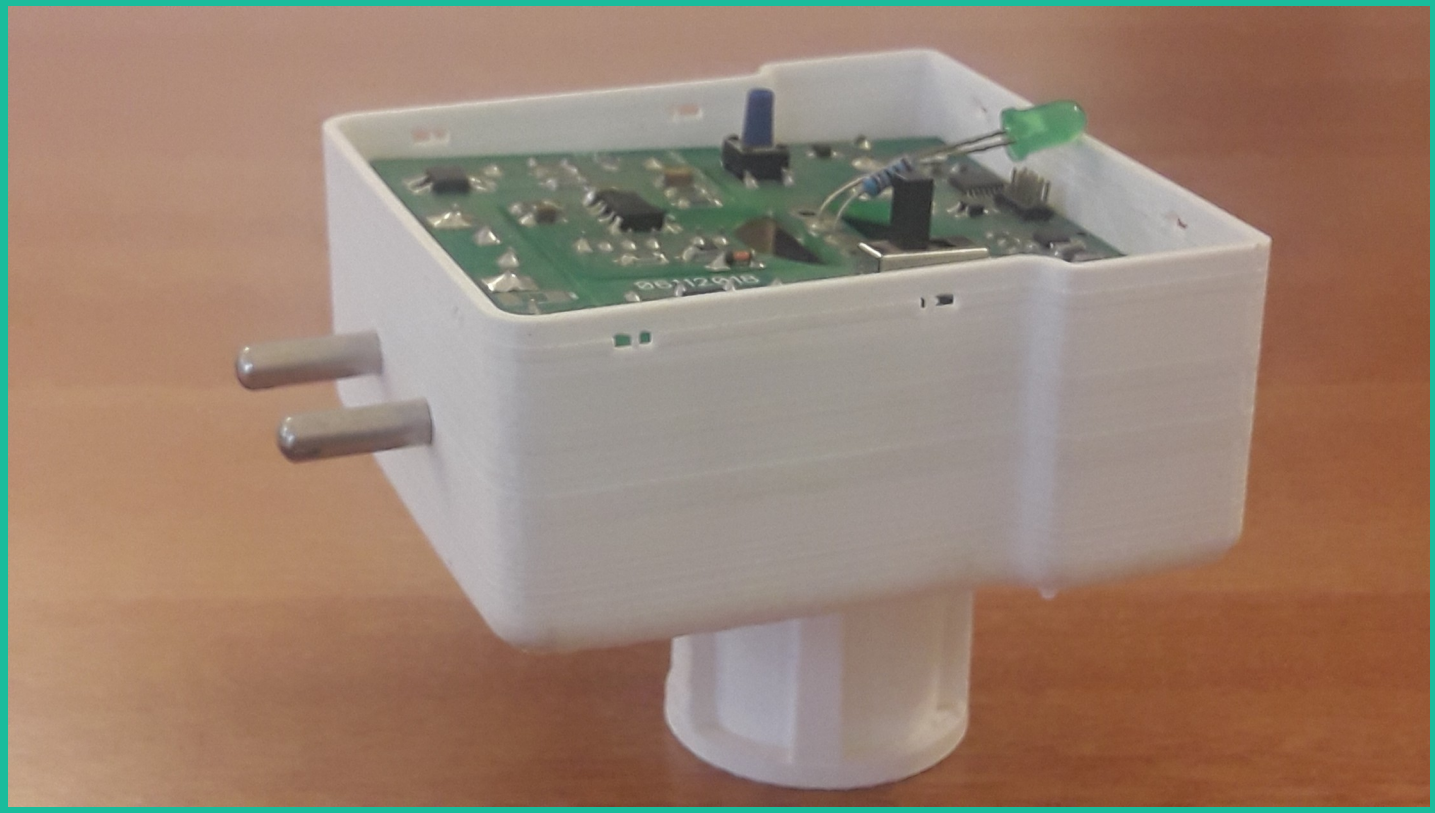
Design Process



External look and feel and dimensions of product is decided and a 3D solid model is designed using software like Solid Works or Solid Edge. A sample is 3D printed using facilities available in-house.

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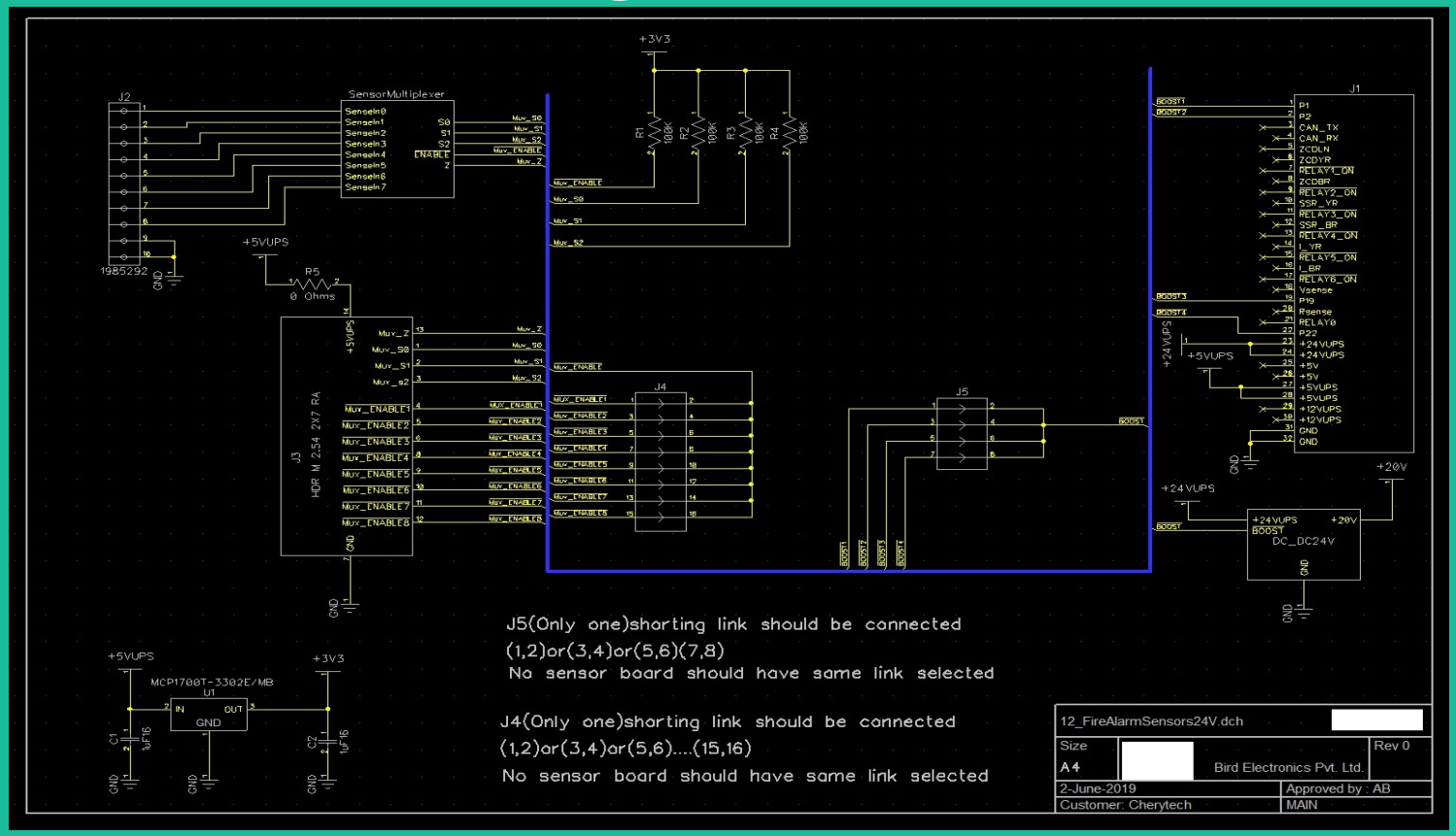
Design Process



Product schematics are prepared and reviewed with customer

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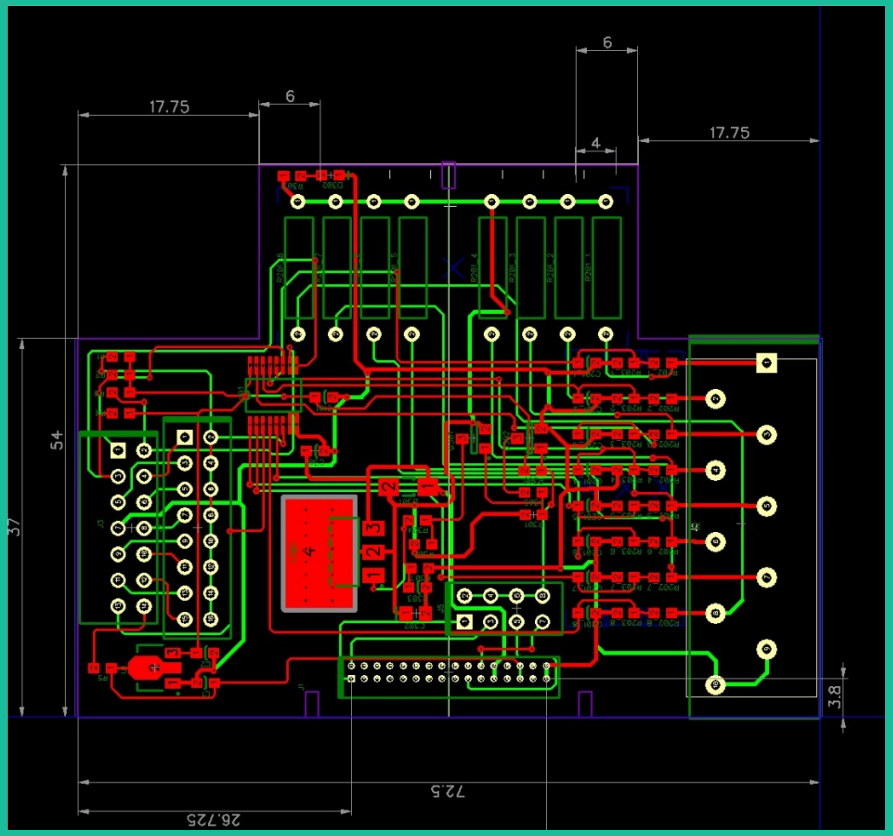
Design Process



Schematic is converted into a PCB Layout

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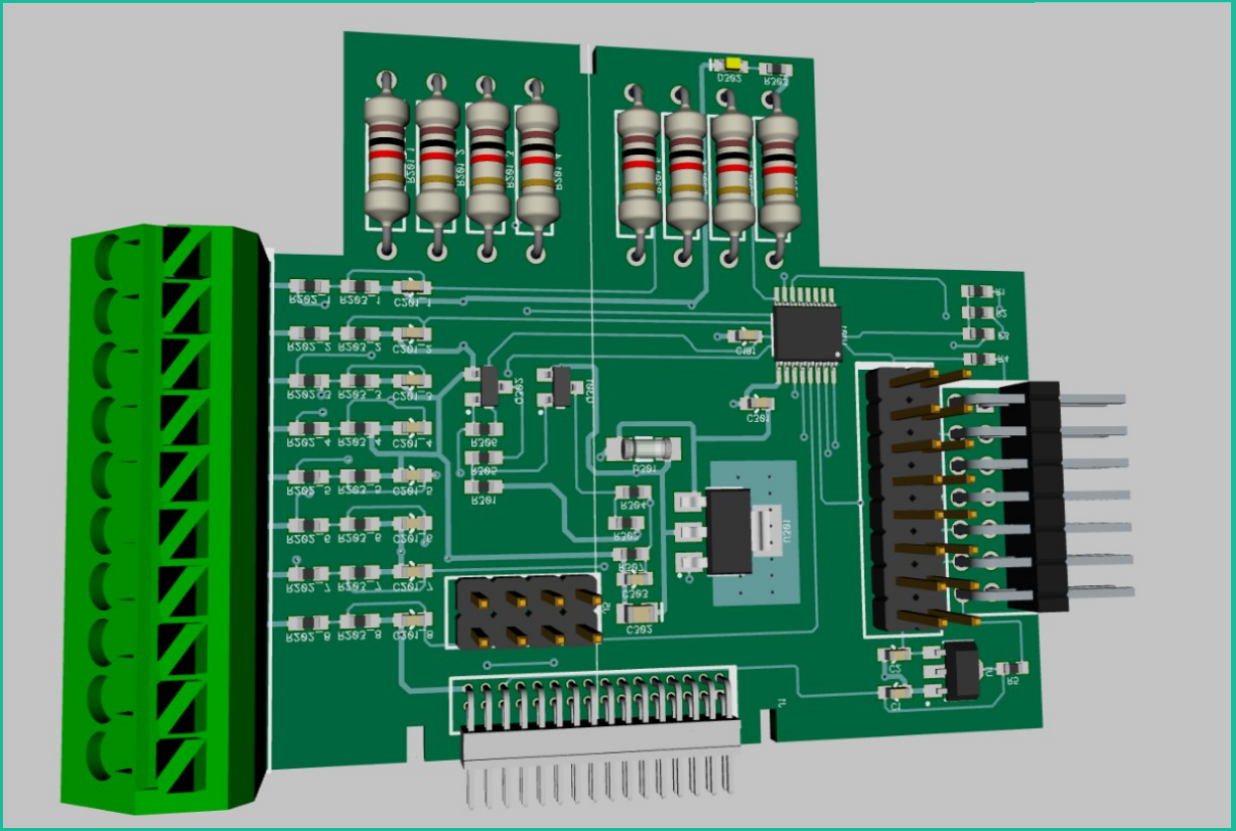
Design Process



PCB design is done in 2D / 3D and a complete 3D view is available before making the PCB

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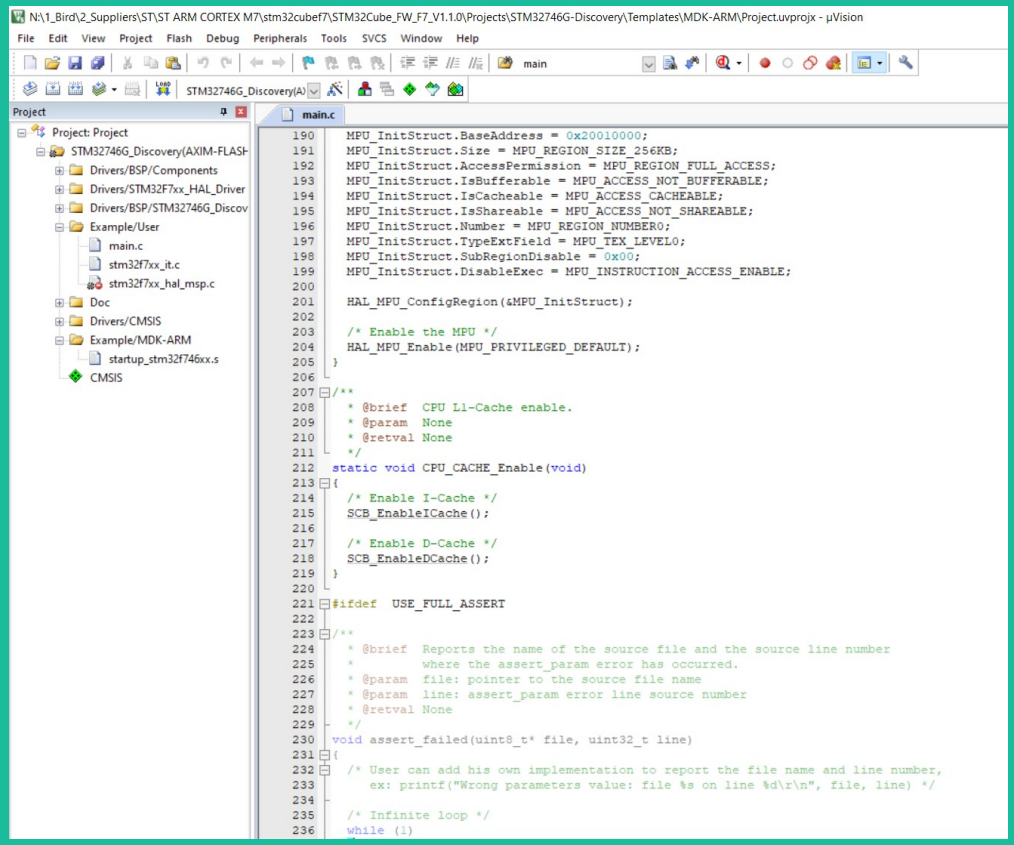
Design Process



Compilers like KEIL MDK Professional , Microchip MPLAB and Renesas e2 studio are available with us for firmware development

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Design Process

Debugging is done with appropriate debugger. KEIL ULINK2 is one of the good debugger suitable for use with KEIL MDK Professional.

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Design Process

Project completed and delivered
Next idea starts here !

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Production process and equipment

We have in house facilities for prototypes and low volume production. High volume production facilities are available with our associate company.

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Production process and equipment

Reflow oven can match/far exceed capacity of pick and place machine.

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Production process and equipment

For PCBs with SMD and Thruhole components, we need a wave soldering machine. One machine can easily process matching components for PCBs processed on pick and place machine.

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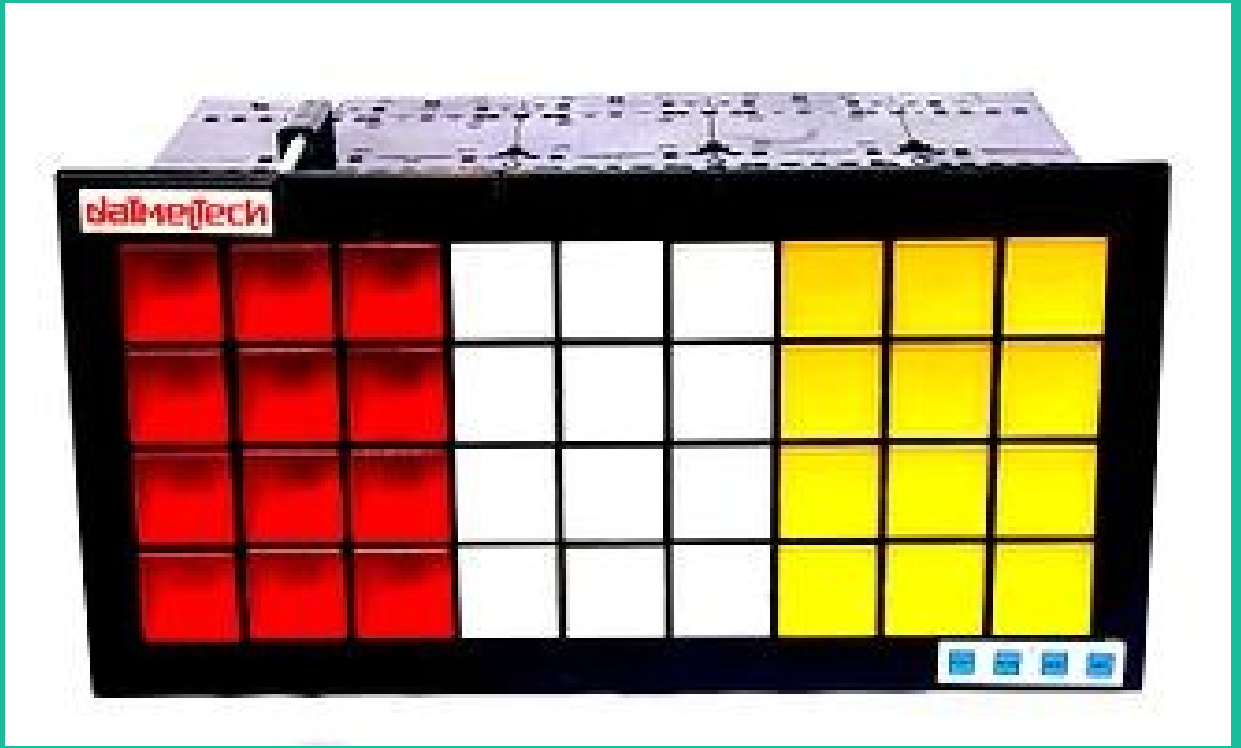
About Us



Started business in 1986 as a family owned partnership firm. In 1996 became a family owned private limited company. Initially we manufactured Security guard Alert systems, water level controllers and Alarm Annunciators.

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About Us

1988 on-wards started manufacturing controllers for Centralized lubrication systems. These are used to provide controlled lubrication to heavy earth moving machines. Such timers were used by virtually all earth moving machines. These were used by companies like Grindwell Norton/ Lincoln Helios and SKF.

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About Us

In the early 1990s brought in several controllers for Dental Medical equipment: Dental Chair motion controls, X-Ray timers, Micro-motor controls, Autoclaves and many more.

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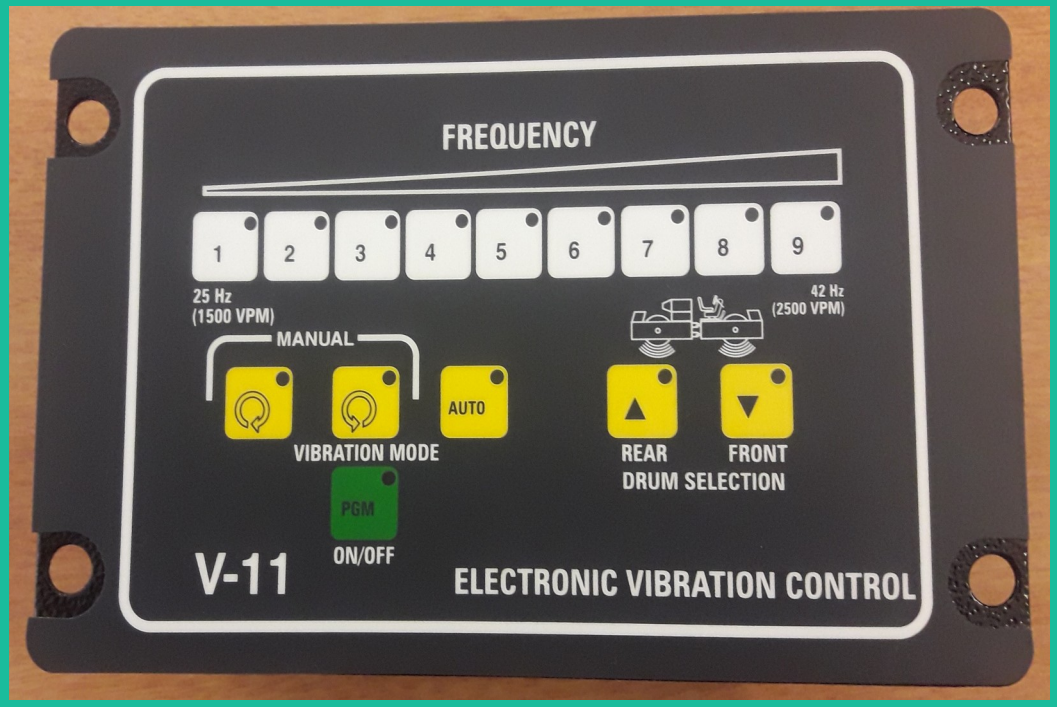
About Us



In the mid to late 1990s designed controllers for Asphalt compactors, drilling efficiency monitors for very large mining drills and some very complex timers. We still make some of these products without much change even after more than 20 years. The products are used by companies like Ingersoll Rand / Volvo.

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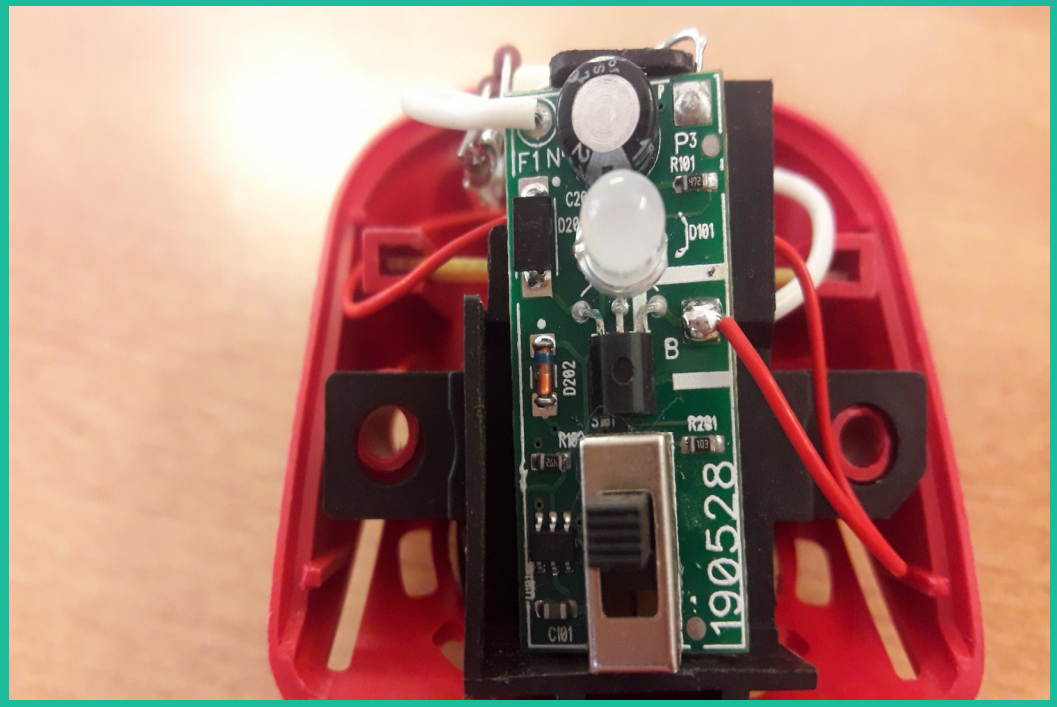
About Us



In 2019/2020 designed a controller for a mosquito repellent device which is a very low cost product. 15 Million + nos have been manufactured in less than 9 months since the launch of this product - and without a single unit with a failed component due to manufacturing defect.

BIRD ELECTRONICS PRIVATE LIMITED

where

Ecology and technology go together

We have been granted international patent (PCT) on mosquito repellents under Green Channel scheme. 2 more patents are in the pipeline on mosquito repellents.

BIRD ELECTRONICS PRIVATE LIMITED

Contact Us

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