

MicroSystem Engineers

Customized Engineering & Automation

M/s **MicroSystem Engineers (MSE)** is a strong pioneer involved in providing embedded solutions & high quality product/ services to the customers, employing a dedicated R&D shell for customized engineering.

We offer consultancy of hi-tech assignments including projects development on turnkey basis. We are operating dedicated Research & Development shell to comply projects as per customers requirement. Our division is a team of expert technocrats having decades of experience in their respective field.

Our focus is to develop the projects using latest technology with minimum cost of product. We provides custom electronics design, embedded systems design, Micro-processor based design, prototyping & contract manufacturing services covering a wide area in electronics domain. We design all types of **electronic circuits or products** according to custom specifications at affordable costs while maintaining optimum quality.

Our services includes

- *Designing & prototyping electronic circuits and products as per custom specifications*
- *Embedded systems design & prototyping*
- *Power Electronics cum Electrical projects*
- *Wireless electronic systems design for remote control and data communications (RF/ GPS/ GPRS based)*
- *Microprocessor/ Micro-controller based design*
- *Complete electronic product design from concept to completion (turnkey projects)*
- *Thermal Imaging based customized solutions*
- *Industrial Automation (SCADA/ Drives/ PLC's based)*

Projects Completed

- *Power Control Unit (PCU)*
- *Programmable DC current source up to 250 kW*
- *Static Voltage Conditioner up to 100 kVA*
- *Security / alarm and surveillance systems*
- *Dual DC Power Supply & High power chargers*
- *Wireless data logging system with remote monitoring & control*
- *GPS/ GPRS based remote panel to control/ monitor electrical parameters*
- *HV high power AC test set up to 3 Amp. leakage current*
- *Extra high voltage Power Electrical system for insulator testing*
- *Remote control switch for domestic lighting/ fan control*
- *GPS clock*
- *Air handling / conditioning system for pharmaceuticals*
- *Energy metering /recording systems*
- *TCP-IP based data acquisition systems*

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Let me check, who's going to disturb the operation by raising its temperature



FLIR's Thermal Imager rotates 360° from a strategic location and raise alarm instantly in case of any hot spot/ abnormal temperature in the switch yard area



HotSpot Details									
HotSpot ID	HotSpotTime	Latitude	Longitude	StartPole	Section	Division	EndPole	Max. Temp.	HotSpot Image
4823	7/19/2011 12:45:28 PM	25.4349	85.8552	"120/62 IMP 3.10"	"DN SL "	"HWH"	"120/60 IMP 2.36"	42.2634	Click to View Image
4824	7/19/2011 12:47:20 PM	25.4326	85.8570	"120/62 IMP 3.10"	"DN SL "	"HWH"	"120/60 IMP 2.36"	42.1941	Click to View Image
4825	7/19/2011 4:40:20 PM	24.5204	86.6397	"120/62 IMP 3.10"	"DN SL "	"HWH"	"120/60 IMP 2.36"	39.6685	Click to View Image
4826	7/19/2011 4:44:16 PM	24.5173	86.6433	"120/62 IMP 3.10"	"DN SL "	"HWH"	"120/60 IMP 2.36"	36.4129	Click to View Image
4873	7/19/2011 4:45:03 PM	24.5173	86.6433	"120/62 IMP 3.10"	"DN SL "	"HWH"	"120/60 IMP 2.36"	36.1412	Click to View Image

Application designed by MSE for RDSO

FLIR Thermal Imager finds out hot spots in Over head cable while mounted on the roof top of train and frame the findings in user defined format automatically.



Die Casting Thermal Automated Solution by MSE –

- Fixed type Thermal Imager installed to capture images based on external trigger or as programmed by user & to create excel data automatically for reference analysis & quality control.
- Alarm options in the form of Audio/ visual/ SMS/ e-mail etc.

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