

## Ishan Mehrotra

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### Career Objective:

Looking for a challenging position in an organization where my gained skills in MEP/SOLAR ENERGY field can positively impact the organizational as well as my growth. Want to work in a culture where team work is top priority and with solution oriented techno commercial approach we altogether can lead to the successful project deliveries.

### PROFESSIONAL PROFILE

- ⇒ A Degree in Electrical & Electronics Engineering with experience of almost 4 years in building construction/infrastructure projects.
- ⇒ International exposure with capability to work in a multi-cultural team environment.
- ⇒ Adept in interfacing with internal departments/vendors to ensure smooth flow of cash.
- ⇒ Complete design coordination and site supervision of LV & ELV services with different vendors.

### COMPETENCIES

Single line Diagrams	ELV system	Analytical & problem solving
MV/LV system	Value engineering Decision making	solar photovoltaic
Project Implementation	MEP coordination	

### CAREER PATH

<b>Colliers International</b> Senior Engineer-MEP	<b>May 2018-ongoing</b>
<b>National Institute of Solar Energy, Gurgaon.</b> Electrical Engineer (Project Training)	<b>Jan 2018 – April 2018</b>
<b>Shapoorji Pallonji Middleeast LLC</b> Sr.Electrical Engineer	<b>Mar 2015 – Nov 2017</b>
<b>Shapoorji Pallonji &amp; co.Ltd</b> Electrical Engineer	<b>Aug 2014 – March 2015</b>

### KEY ACHIEVEMENTS - PROJECTS

**Project Location:-Voltas pvt.ltd.**  
**Duration stayed: May 2018-ongoing**

Project	Contributions
Refurbishment of voltas pvt.ltd office, Delhi. Client-voltas pvt.ltd. B2+B1+G+3.	<ul style="list-style-type: none"><li>▪ Shop drawings verification and approving before proceeding with execution activities on site.</li><li>▪ MEP coordination layout verification and approval before execution activities on site.</li><li>▪ Execution supervision on site, ensuring the work is performed as per approved shop drawings.</li><li>▪ Checking executed work quality and maintaining proper checklist for activities.</li></ul>

**Project Location:-NISE, Gurgaon**  
**Duration stayed: Jan 2018-ongoing**

Project	Contributions
<ul style="list-style-type: none"><li>▪ Design &amp; implementation of solar PV and solar thermal technology: <b>National Institute of solar energy, Gurgaon.</b></li></ul>	<ul style="list-style-type: none"><li>▪ Currently undergoing project training on grid connected and off-grid solar PV project in National Institute of solar energy, Gurgaon.-it's a project based training which includes practical training from solar modules manufacturing to PV plant design, installation, O&amp;M of solar photovoltaic, making us aware about government policies for net metering, different solar thermal technologies etc.</li><li>▪ Production and testing of solar modules, important tests and IEC standards for module testing.</li><li>▪ Technology selection of solar modules for different climates.</li><li>▪ Installation practices on 500KWp &amp; 25KWp solar power plant inside the training facility.</li><li>▪ Interpretation of SLD and estimating the bill of quantities from the developed drawings.</li><li>▪ Battery capacity and charge controller sizing and selection.</li><li>▪ Selection of inverters as per the load demand and market availability.</li><li>▪ Manually designing of standalone system with battery storage.</li><li>▪ Manually designing/case study of 1MW grid connected plant, selection of voltage range for smooth operation at inverter MPPT range. Deciding the number of modules in series and parallel combination taking inverter parameters, climate conditions under consideration.</li></ul>

**Project:-AL Khorayef Center**  
**Duration stayed:Mar'16-Nov'17**

Project	Contributions
<ul style="list-style-type: none"> <li>5 star hotel project.</li> <li>Al khorayef sons-client</li> <li>B2,B1, G+17 floors,</li> <li>Hotel apartments-189 nos.</li> <li><b>BUROHAPPOLD consultants</b></li> <li><b>Henning Larsen Architects</b></li> <li>250 million SAR value</li> <li>Dammam,KSA</li> <li>Mar16-till now</li> </ul>	<ul style="list-style-type: none"> <li>Involved to manage &amp; control all the electrical drawings, Material technical submittals, and Technical discussion with Consultant for taking timely approvals.</li> <li>Preparing shop drawings for Small power layout, Lighting layouts, load schedule, SLD preparation and submission to consultants based upon the available design drawing.</li> <li>Load flow studies including voltage drop calculations, cable sizing calculations, short circuit studies for the selection of switchgear (manually and load flow through ETAP software also).</li> <li>Managing technical/engineering works like drawing finalization for equipment as per customer requirement.</li> <li>MV cable trench layout finalisation, seeking the local authority approval for SEC substation room layout with the help of consultant.</li> <li>MV transformers drawing coordination with vendor &amp; transformer room layout preparation seeking the site limitations in mind.</li> <li>Scheduling the engineering works timely. Technical coordination with client and consultants.</li> <li>Checking the engineering drawings, document reviews, technical reviews for ensuring the interfacing with different mechanical/HVAC, firefighting, Building management system, and other I&amp;C interfaces are maintained.</li> <li>Support to site erection and commissioning team for execution as per drawings and site suitability.</li> <li>Value engineering and variation claims to be put forward timely.</li> <li>Assisting and handling all MV/LV distribution drawings including the local authority requirement for protection coordination and relay settings.</li> <li>Coordination with Saudi Electricity Company for project substation power supply, satisfying their technical concerns for their equipment installation on site along with their requirements for our switchgear.</li> <li>Lightning protection system installation &amp; coordination with technical expert for solving out installation issues on site in line with rolling sphere theory.</li> </ul>

**Project:-King Khalid International Airport**  
**Duration stayed: Aug'15-Mar'16.**

Project	Contributions
<ul style="list-style-type: none"> <li>King Khalid international airport</li> <li><b>General Authority of Civil Aviation-client</b></li> <li><b>5.5 billion SAR</b></li> <li><b>AECOM consultants</b></li> <li>Complete <b>refurbishment</b> of Terminal-3 &amp; 4.</li> <li>KSA, Riyadh</li> <li>Aug15-Mar16.</li> </ul>	<ul style="list-style-type: none"> <li>I was the part of engineering team &amp; my work was to coordinate with design team to prepare the method statements in line with project requirements.</li> <li>Coordination with consultant for the approval of Method Statements.</li> <li>Study of old as built drawings: power distribution in terminal link-3, airfield power distribution, identifying critical services that affects all terminals before structural demolition since T3,T4 refurbishment were the part of project but T1,T2 were 24x7 working terminals.</li> <li>Making detailed analysis report for sub vendors for services demolition &amp; making demolition packages for floating it to sub vendors.</li> <li>Study &amp; report preparation over infrastructure drawing for making logistics plan for future terminal construction.</li> <li>Utility survey works before starting excavation activities &amp; also for locating the proposed road for future construction.</li> <li>Making brief report for disconnection of terminal power supply, keeping I mind for low current systems like integrated fire alarm &amp; PAVA, security system, other specialized airport systems like air traffic control, runway lighting, fuel shutoff etc. are not getting affected &amp; start area wise construction activities.</li> <li>Making single line diagrams for temporary installations &amp; lighting &amp; power requirement for working inside terminal premises.</li> <li>Review of lighting &amp; power drawings submitted by sub-contractor for temporary setup for site office building.</li> </ul>

**Project:-Edafah Towers ,Riyadh**  
**Duration stayed:Mar'15-Aug'15.**

Project	Contributions
<ul style="list-style-type: none"> <li>Edafah Towers, Riyadh</li> <li>Hotel(3B,G+7,penthouse,suite)-5 star</li> <li><b>Fraser suites-client</b></li> <li><b>90 million SAR-MEP</b></li> <li><b>Universal Consultancy Services</b></li> <li>KSA, Riyadh</li> <li>Mar15-Aug15.</li> </ul>	<ul style="list-style-type: none"> <li>Study &amp; following the Tender specifications, design drawings &amp; scope of work.</li> <li>Preparing shop drawings &amp; submitting for consultant's approval.</li> <li>Preparation of load schedules &amp; load balancing.</li> <li>Following approved shop drawings for onsite execution.</li> <li>Co-ordination with other trades such as mechanical, electrical, plumbing &amp; civil on site.</li> <li>Study of method statements for maintaining quality of work on site.</li> <li>Material planning &amp; arrangements for achieving targets.</li> <li>Material inspections as per approved makes &amp; technical details.</li> <li>Following the cause &amp; effect matrix as per consultant's requirement for fire alarm &amp; voice evacuation system.</li> <li>Follow up with consultant's comments for maintaining quality in executed work.</li> <li>Commissioning of LV panels, apartment DB's.</li> <li>Coordination &amp; execution for fire alarm system including FM200 also.</li> <li>Commissioning of MCC panel equipped with VFD drive.</li> </ul>

**Project:-Rajiv Gandhi International Cricket Stadium, Dehradun**  
**Duration stayed:Aug'14-Mar'15.**

Project	Contributions
<ul style="list-style-type: none"> <li>RGICS,Dehradun</li> <li>International cricket stadium</li> <li><b>Dehradun Govt.</b></li> <li><b>237 crores INR.</b></li> <li><b>Collage design Consultancy Services</b></li> <li>Dehradun, uttarakhand</li> </ul>	<ul style="list-style-type: none"> <li>Study &amp; co-ordination with structural drawings so as to ensure proper MEP services in place &amp; to ensure less structural reworks in future by ensuring sleeve, shaft openings.</li> <li>Making technical &amp; pricewise comparison from different sub-vendor's quotation of electrical activities like DG, transformers, panels, referring tender specifications for technical comparison for client's satisfaction.</li> <li>Study of Design Basis Report for electrical services.</li> <li>Preparing schedule for procurement for long lead items on site as per coordinating with civil targets.</li> <li>Studying about implementing rooftop solar PV plant for north stand, powering the lighting and power requirement for the north stand in the stadium.</li> <li>Proper material inspections as per the client's requirements.</li> <li>Co-ordination with sub-vendors for preparing monthly work done billing.</li> <li>Factory inspection of Bus duct &amp; making final report for submission to consultant.</li> </ul>

**TRAININGS RECEIVED/Factory inspections carried**

2017	Factory visit to L&T factory, Dammam for inspection of power factor correction panel.
2014	Factory visit to haridwar for busduct inspection in C&S electrical.
2014	Lightning protection ( <b>Shapoorji Pallonji &amp; Co. Ltd</b> )
2013	Industrial training in Indian Oil refinery.( <b>Academic</b> )

**EDUCATION**

Qualification/Certification	Institute/Board	Year
Degree - Electrical & Electronics Engineering	UP Technical university-77.52%	2014
Certificate for ETAP course.	Coursovie Academy	2017
Iacharya -Certification for solar power-off grid & ongrid technology-design & execution for PV system.	Ministry of New & renewable Energy.	2017

# CERTIFICATE OF EXCELLENCE

**Ishan Mehrotra**

**has successfully achieved the certification**

Electrical Engineering Simulations using ETAP



Coursovie

*Hossein Fotoonchy*

President  
Coursovie Training Inc.



February 26, 2017

Certificate: 10524509



## CERTIFICATE of COMPLETION Awarded to

Certificate No. PV/isIA101/2498



**Ishan Mehrotra**

in recognition of successfully completing online course on

***Solar photovoltaic Off-grid and On-grid: Design & Installation***

Course Completed On June 27, 2017, 6:08 pm

A handwritten signature in blue ink.

**DR. G. GIRIDHAR**

DEPUTY DIRECTOR GENERAL & HEAD - SOLAR RADIATION RESOURCE ASSESSMENT, NIWE

Organized by iacharya Silicon Limited, Chennai in association with the SRRA unit of NIWE (R&D institution under MNRE)

