**SUKHMANDIR SINGH**

Age: 62 years

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Profession : Mechanical Engineer

Qualification: Graduate Member of I.Mech.E, I.Elect.E, I.Prod.E., UK.

**EXPERIENCE :** 40 years

**KEY SKILLS:**

* Business Management
* Marketing of Capital equipment
* Workshop Layout design and planning
* Specification and evaluation of Machinery and Plant
* Surface enhancement through shot peening and blasting
* Maintenance of railway rolling stock

**EXPERIENCE SUMMARY:**

* **Indian Railways – 20 years, 1974 to 1994**
* Works Manager – 2 years
* Divisional Mechanical Engineer – 6 years
* Dy. Chief Personnel Officer & Secretary to General Manager - 3 years
* Dy. Chief Mechanical Engineer (Plant) - 2 years
* Dy. Chief Mechanical Engineer (M&P) – 5 years
* Chief Motive Power Engineer (Diesel) – 2 years
* **Private Sector – 20 years, 1994 to date**
* Director Engineering, Pangborn India – 5 years
* Marketing Manager with Heatly & Gresham, Intelmac and Messer – 4 years
* Dy. General Manager (Project), Ador Welding – 4 years
* Country Sales Manager, Wheelabrator Group, UK – 4 years
* Sr. Consultant, Interfleet Technology (India) – 3 years

**SIGNIFICANT ACHIEVEMENTS**:

* Drafting of maintenance schedules for all M&P at new start-up Wheel & Axle Plant, Bangalore
* Recruitment of entire workshop cadre at Wheel & Axle Plant, Bangalore
* Specification, evaluation and installation of all production M&P including Paint shop at Rail Coach Factory, Kapurthala
* Order booking of high value long rail welding line at Jindal Steel & Power, and shot blasting machines at Essar steel and Volvo India
* Design layout for enhancing production at Diesel Locomotive Workshop, Varanasi; Maintenance shed and overhaul workshop for Electric locomotive maintenance; Coach mid-life rehabilitation facility at Jhansi Workshop

**CAREER SUMMARY**:

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| Organization | **Designation** | **Responsibility** | **Period** |
| Interfleet Technology (India) | Sr. Consultant | Deliver consultancy service | Mar 2011 - date |
| Wheelabrator Group, UK | Country Sales Manager | Marketing shot blasting and peening machines | Apr 2007 – Dec 2010 |
| Ador Welding | Dy. General Manager (Project) | Long rail welding lines & Mobile rail welder from Railtech Schlatter Systems | Sep 2002 – Jan 2007 |
| Heatly & Gresham; Ador Welding | Area Manager | Marketing of CNC machine tools; resistance welding machines | Feb 1999 – Jul 2002 |
| Pangborn India | Director Engineering | Engineering of shot blasting and peening machines | Oct 1994 – Jan 1999 |
| Central Railway, Indian Railways | Chief Motive Power Engineer (Diesel) | Maintenance of diesel locomotive fleet | Jun 1993 – Oct 1994 |
| Central Railway, Indian Railways | Sr. Divisional Mechanical Engineer, Nagpur | Maintenance and operation of locomotives, coaches & wagons | Jul 1990 – May 1993 |
| Rail Coach Factory, Indian Railways | Dy. Chief Mechanical Engineer (M&P), Kapurthala | Specifications, evaluation and installation of production M&P, including Paint shop | Dec 1985 – Feb 1990 |
| Wheel & Axle Plant, Indian Railways | Dy. Chief Mechanical Engineer (Plant), Wheel & Axle, Bangalore | Maintenance of M&P | Oct 1983 – Nov 1985 |
| Wheel & Axle Plant, Indian Railways | Dy. Chief Personnel Officer & Secy. To GM, Wheel & Axle Plant, Bangalore | Personnel administration | Sep 1981 – Oct 1983 |
| Central Railway, Indian Railways | Sr. Mech. Engineer(Plg.); Divisional Mech. Engineer | Planning of maintenance sheds; rolling stock maintenance | Sep 1978 – Sep 1981 |
| South-Central Railway, Indian Railways | Asst. Works Manager, Kurduwadi; Asst. Mech. Engineer, Hubli | Maintenance overhaul and operation of rolling stock | Jan 1976 – Sep 1978 |
| Indian Railways | Probationary Officer |  | Jan 1974 – Dec 1975 |

**CAREER HISTORY**:

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| Mar 2011 - date |  | Sr. Consultant, interfleet technology (india)  Interfleet Technology (India) is wholly owned by Interfleet Holdings UK, member of SNC Lavalin Infrastructure Canada. Interfleet are leading consultants in railway rolling stock.  Delivery of Consultancy services –   * Concept layout design of Diesel Locomotive Workshop, Varanasi, and M&P, for augmenting production of high-horsepower locomotives from 200 to 300 per year * Layout design of maintenance depot for driver-less trains (GoA4) for DMRC * Type-test of Mumbai Monorail * Concept layout design of maintenance shed and overhaul workshop for Electric locomotives * Market survey for German air-spring manufacturer * Layout design of facility and M&P for Mid-life rehabilitation of passenger coaches and New Trolley shop |
| Apr 2007 – Dec 2010 | : | Country Sales Manager, Wheelabrator Group  Wheelabrator Group is world leader in surface preparation technology, offering widest range of shot blasting and peening machines.  Marketing of surface preparation machines –   * Plate Preservation Line * Plate and section shot blasting * Monorail spinner hanger shot blasting * CNC Shot Peening & Forming for Aerospace components * CNC Shot Peening for Automotive transmission gears and springs * Air blast Room plant |
| Sep 2002 – Jan 2007 | : | Deputy General Manager (Project), Ador Welding.   * Installation & commissioning of Railtech - Schlatter Long Rail Flash-butt welding plant at Jindal Steel & Power * Alumino-thermit welding on Indian Railways * Robotic welding stations with ANDON, Sweden |
| Feb 1999 – Jul 2002 | : | **Marketing Manager for Machine and Equipment.**  Associated with Heatly & Gresham, Schlatter AG, Messer India and Intelmac for marketing of -   * CNC Machine tools – Machining centres and Turning centres * Coordinate Measuring machines * CNC Laser cutting and welding * Foil Seam welding and Resistance spot welding * Flash-butt Rail welding machine |
| Oct 1994 – Jan 1999 | : | Director Engineering, Pangborn India  Manufacture of shot blasting and shot peening machines to design and drawings of Pangborn, USA, world leader in shot blasting and peening technology.   * Technical co-ordination with Pangborn, USA. * Material and parts procurement. * Quality control and inspection of machine manufacturing * Machine testing * Machine commissioning at site and prove-out |
| Oct 1994 | : | **Took Pre-mature Retirement from Indian Railways** |
| Jun 1993 – Oct 1994 | : | **Chief Motive Power Engineer [Diesel] , Central Railway**  Maintenance of 600 Diesel-electric locomotives homed in 6 sheds of Central Railway for operation of mail, express and freight trains.  Co-ordination with operating department, production units, overhaul workshops, spare parts purchase and staffing matters. |
| Jul 1990 – May 1993 | : | **Sr. Divisional Mechanical Engineer, Nagpur**  Maintenance and operation of steam and diesel locomotives, passenger trains and freight wagons.  Switch-over from steam traction to diesel and electric traction on Nagpur division |
| 1985 –1990 | : | **Dy. Chief Mechanical Engineer (M&P), Rail Coach Factory, Kapurthala**  Green field project for manufacture of 1000 passenger cars per year.  Responsible for -   * Machine specifications and technical evaluation of M&P. * Plant layout and preparation of civil foundations. * Machine Installation and Commissioning. * Training of staff in maintenance and operation. * Spare Parts planning. * Maintenance schedules.   Machines included –   * Sheet metal Forming - Cold roll forming, Cut to length, Shearing centre, Auto-feed Shears, CNC Press brakes, Tandem Press brake, CNC Plasma Punch Press, CNC Laser cutting, 1000 Ton Hydraulic Press. * Surface preparation – shot blasting and shot peening. * Welding – synergic-pulse welding, foil seam welding, resistance welding, and submerged-arc welding. * Robot welding stations. * Paint system for passenger coach. * Metal cutting machines – CNC Machining centre, Turning centre, Horizontal Boring. * Coordinate Measuring machine. |
| 1981 - 1985 | : | **Wheel & Axle Plant**   * Joined as Senior Mech. Engineer (Melting) – study of drawings and specifications of Electric Arc Furnace, EOT cranes, inspection of equipment for Melting shop. * Secretary to General Manager and Deputy Chief Personnel Officer – administrative and personnel matters, recruitment of supervisors and artisans for entire workshop. * Deputy Chief Mechanical Engineer (Plant Maintenance) – responsible for  1. Drawing up preventive and predictive maintenance schedules for all machines. 2. Time allocation and staffing plan for maintenance activities. 3. Implementation of maintenance schedules. 4. Spare parts planning.   Machine & Plant included –   * Long forging machine * Furnaces – electric arc, rotary hearth, normalizing * Metal cutting machines – axle lathes, wheel boring * Conveyors – walking beam, roller tables, turn-over’s |
| 1978 - 1981 | : | Central Railway  Worked as **-**   * Divisional Mech. Engr. (C & W) – Operation and maintenance of passenger and freight cars on Jhansi division. * Senior Mech. Engr. (HQ) – Planning & Projects * Diesel Shunter maintenance sheds at Kalyan and Agra * Narrow Gauge diesel shed at Kurduwadi * ROH facilities for freight wagon bogies at Bhusaval, Katni and Nagpur * Passenger car rake maintenance sidings at Agra and Solapur.   Planning involved – site selection, building and factory shed layout, machinery and plant provision, cost estimation, financial justification and accounts vetting. |
| 1974 - 1978 | : | **Joined Indian Railways Service of Mechanical Engineers (IRSME).**  Posted to South-Central Railway as Asst. Mechanical Engineer  Worked as -   * Asst. Mech. Engr. (Loco), Hubli – Operation & Maintenance of Steam locomotives. * Asst. Workshop Manager, Kurduwadi – Independent charge of workshop responsible for complete maintenance overhaul of narrow-gauge steam locomotives, coaches and wagons, plus operation of train services on 280 km long section. The workshop undertook POH of steam locomotives and had its own ferrous and non-ferrous foundry, forge, machine shop, carpentry, boiler and erection shops. |