Bio-Data

**Name** : Mukesh Chunilal Panchal

**Address**  : 1-Devdarsan Tenement,

: Nr. Dena Bank , B/H J B Park,

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: Ahmedabad – 380 058

: Gujarat – India

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**Date of Birth**  24ThOct 1962

**Education**

JULY, 1984 B.E. (MECH) SAURASTRA UNIVERSITY 67%

APRIL, 1980 HSC G.S.E.B 68%

MARCH, 1978 NEW SSC G.S.E.B 74%

**Short term trainings**

CAD in Mechanical Engineering IIT Madras

Programming FOXPRO/C++ DOT Viramgam

Workshop on Fiber Optics Tech The Fiber Optic Association INC USA.

Autodesk Inventor Khodiyar CAD center - Ahmedabad

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# A rare mix of experience in Design, operation and maintenance, project planning, coordination, execution, installation and commissioning, product development, purchase subcontracting and vendor development, production planning and dispatch planning, software development .

#### Positions Held

Nov2010 \_Oct 2021 : Sr. Manager (Engineering services)

HOWE ENGINEER Projects (Adani Group)

2006-2010 : Functionalcoordinator(Design& Drawings)

DRA – Elecon India Ltd. (DRA Minerals S.A)

2001-2006 : Sr. Manager - Project & Maintenance

Gujarat Telephone Cables Ltd (ISO: 9001)

1994-2000 : Manager - Project & Maintenance

Gujarat Telephone Cables Ltd (ISO: 9001)

1990-1994 : Asst. Manager - Engineering

Gujarat Telephone Cables Ltd (ISO: 9001)

1984-1990 : Jr.Engineer - CAD

Elecon Eng. Co. Ltd. India (ISO: 9001)

Nov 2010)-Oct 2022 I was working with PMC Project (ADANI) in Port projects bidding, planning, basic engineering and execution of Material handling systems.

* High capacity(up to 7200 TPH) high speed conveyors(up to 8.1 m/s) for port bulk handling
* Complete engineering from Concept to commissioning
* Developing alternate layout
* Basic engineering
* BOQ for tendering
* Preparation of scope and Specifications
* Design Basis
* Conveyor calculations and selections
* Checking and approval of vendor’s drawings and calculations.
* Completed successfullyfollowing projects,
  + Dahej port to silo high speed conveyor system with horizontal curves. (7.5 m/s belt speed) triangular gallery.
  + Hazira MHS for coal handling. 6800 TPH
  + Marmugao Port. – 4400 TPH with Rapid wagon loading
  + Vizag Port EQ-1
  + Mundra West port – Phase-II (100 MTPA)
  + Currently engaged in development of following ports,
    - Dhamra Port (27 MTPA) – 7200/8800 TPH coal and iron handling.
    - Tuna off tekra (Kandla) (14 MTPA) includes long distance high speed conveyors for fertilizer and coal.
    - Mundra ( additional yard conveyors) 6800 TPH
    - Dahej – expansion 20 MTPA – coal handling.
* Also have experience in,
  + Rapid wagon loading system (4000TPH).
  + Mobile hoppers with belt feeders.
  + Travelling trippers.
  + Shuttle head (moving head)
  + Track hopper.
  + Interface with ship loader, ship unloader, stacker and reclaimer

Oct 2006 to Nov 2010: Functional coordinator:

Design and drawing of belt conveyors. I was also involved in checking of some of the drawings.

Achievements:

1. Modified design for shuttle conveyors on BKM project.
2. Preparation of all the Conveyor G.A drawings for Tati Nickel & Phola coal Project.
3. Achieved all the time limit target set by D.O.Manager.
4. Drawing & design coordination for below listed projects

Was involved in belt conveyors drawings and design of following projects

1. Project Name: Phola Coal

Client: BHP Billiton

Value: USD 100 million

Mineral: Coal

Location: SOUTH AFRICA

1. Project Name: Douglas-Middelburg Optimisation

Client: BHP Billiton

Throughput: 14 MTPA

Mineral: Coal

Location: SOUTH AFRICA

1. Project Name: AK06 Diamond Mine

Client: Boteti Diamonds

Throughput: 2.5 MTPA

Value: USD 126 million

Mineral: Diamonds

Location: BOTSWANA

1. Project Name: N'Komati

Client: African Rainbow Minerals Norilsk JV

Throughput: 250 000 TPM

Mineral: Base Metals

Location: SOUTH AFRICA

1. Project Name: Tati Nickel

Client: Norilsk Nickel

Throughput: 12 MTPA

Value: USD 161 million

Mineral: Base Metals

Location: BOTSWANA

1. Project Name: Pilanesberg Platinum

Client: Boynton Investments

Throughput: 365 000 TPM

Value: USD 170 million

Mineral: Platinum

Location: SOUTH AFRICA

1. Project Name: Khumani Iron Ore

Client: Assmang

Throughput: 16 MTPA

Value: R6 billion

Mineral: Ferrous Metals

Location: SOUTH AFRICA

**1984-1990:** Jr.Engineer: Elecon Engineering Co. Ltd. India (ISO:9001)

Design & Drawings for Material Handling Equipment

Design & drawing for belt conveyors, elevators, for turnkey projects for various plants like Power Plants, Cement Plants, Fertilizer Plants . Design/selection of conveyor belts, large gear boxes, fluid couplings,bearings,drivebelts & chain,pumps,driveframe,shaft,pulleys,silos ,hopper, feeding gate etc. based on capacity requirement. Checking /preparation of G.A.,foundation,assembly& detail drawings for belt conveyors,elevators,drive-frame,transferhouse,pulleys,shafts,couplings,tensioning-units,brakes,chain/beltdrive,hopper,silos,flap gate,scraper,chutes,actuators etc. Preparation of material lists for above items.Installation Operation Maintenance manual & specifications for above items.

Achievements : Had prepared programs for belt conveyor power , belt tensions & major component selection based on CEMA/ISO/DIN guide lines & several manufacturers design/selection criteria.Belt tension at various position in different condition eg during starting,running,braking & partial loading conditions can be calculated with multiple drives

Projects Executed: EGAT (lignite handling) – Thailand, Chittagong Fertilizer, Bangladesh, Neyveli Lignite Corporation India, Paradeep Fertilizer – India, Ghandhinagar thermal power station – India. Conveyor capacity ranging from 1000 TPH to 11000 TPH

**2001-Oct 2006**: Sr. Manager (Project & Maintenance) : Gujarat Telephone Cables Ltd

Iwasinvolvedinnewproductdevelopment,machinemodification,productionplanning&control,co-ordinationbetween Production/Maintenance/Stores/Purchase/Sales.Product costing, man & machine hour calculation, assist in RM & finish goods stock & inventory planning.

Achievements : Had developed programs for Cable order selection to optimize profit , considering plant constrains , profitability of various cable size , time require to manufacturer& time available for completion of order using Linear Programming.I Was involved in development of HDPE / PVC Pipes using existing infrastructure, flexible wires, tin-coated wires for export order, container planning (based on weight , space , loading-unloading fisibility, packing specification & product constrains) CAT-5 cable & several other new cables. Had introduced Raw material loss/gain analysis based on consumtion norms & actual raw material issued .

**1994-2000:** Manager (Project & Maintenance) : Gujarat Telephone Cables Ltd India

Project planning , installation, commissioning, machine modifications, ,developement , Maintenance & overhauling (Communication Cable mfg m/c & Utility)

Plant layout preparation,fabrication / extension of factory shade planning of trenches, piping selection & installation for water, air , steam based on hydraulic/ pneumatic calculations, cooling requirement. Cable manufacturing plant comprise of several Indian, UK , USA , German as well as Swiss latest machines , and is Asia’s largest manufacturing plant . Utility equipments includes Captive Power Generators , Air compressors, Air dryer , Pumps , Softening plants , Cooling towers , forklifts , EOT crane & material handling equip. estimation & costing ,preparaiton of specifications ,sub-contracting of machine / parts ,in house machining , fabrication,piping.Day to day maintenance, preventive maintenance , overhauling , reconditioning of old machinery , modification to improve productivity / to suit product requirement . Analisis of repititive break-downs & rectification . Development of new machines/sub assembly / components for project expansion , maintenace or repair.

Achievements : Had developed 2400 mm Take-up,pay-off & cater piller for sheathing /jacketing & rewing line. Implimentation of Asia’s largest PIJF Telephone Cable Manufacturing Plant. Preparation & implimentation of ISO 9001 .Introduction of RCM (reliability centered maintenance)& condition monitoring in maintenance.Overhauling of Vaughan USA make RBD machine & wire & plastic make high speed insulating line.Design fault identification & rectification of Neihoff wire drawing machine.

**1990-1993:** Asst. Manager Engineering: Gujarat Telephone Cables Ltd India

Development,machine modifictions ,Installation , Commissioning & Maintenance (Communication Cable mfg m/c & Utility). Major machineries RBD,Wire drawing machine with continuous anealer,High speed wire insulating machine with dual reel automatic take-up,high speed twinner,group twinner,drum twister,Jelly filling line with Polyal & polyster applicator, sheathing line,armouring machine, jacketing line & rewinging lines.Utilities includes fork-lifts,EOT crane,screw compressors,reciprocating compressors,air dryer,pump house,cooling towers,water shoftening plant,DG sets ,Air ,water ,petrolium jelly & steam pipe lines,hydaulic power pack valves & cylinders ,pnematics controls, air line accessories etc.Procurement of items required for spare & maintenance , preparation & implimentation of preventive maintenance. Estimation, costing & subcontracting of items for machine parts & reparing.

Acheivements : Hed developed 1600 mm hydraulic pay-off for laying machine, modification of catter piller. Had prepaired preventive maintenance schedule for plant machinary & utility, Had developed conveyor trolley for cable drum handling to eliminate use of forklift with plant.

#### Computer Skills

Windows,AutoCAD 2D/3D, Inventor, Basic,FoxPro, Excel

Belt Stat (CDI) / Belt Analyst (overland) & sidewinder (A/C tek)

I have used autocad throughout my professional carier for defferent application ranging from detail plant layout planning , construction , machine foundation , detail manufacturing (mechanical) including dimensioning , 2D as well as 3D drawings.

Also have introductory knowledge of FEM &C++. Chute DEM

Have made several programs for mechanical calculation / selection in QBASIC

Some of them include :

1. Program for calculating power & belt tension calculation for belt conveyor having any no of horizontal / vertical section ( CEMA as well as ISO ) having any number of drives under various condition like normal operating, empty, starting , braking or even partial loading .

2. Program for telephone cable design

3 Program for Optimum selection of cable size for maximum profitability, considering manufacturing constrains, total quantity available for selection, time limit available for manufacturing using LINEAR PROGRAMMING. This program interact with datafiles

& give results in outputfiles with sizes & quantity which give maximum profit

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