

# ABHINAV PANDEY

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## SUMMARY

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A mechanical engineering graduate from IIT Roorkee with 4+ years of process engineering and project management experience in Nestle India Ltd.

I have demonstrated successful technical, leadership and management skills throughout my Nestle career, achieving performance rating of "Exceeded Expectations" for four consecutive years for my work. I have successfully executed two major capital investment projects, including multiple sub-projects.

+Chocolate business - managed INR 1.5 billion of project cost + Infant Nutrition and Dairy business - managed INR 2 billion of project cost

Specialties / Distinctive Competencies: +Project Management - Engineering Projects +Process Engineering - Food Processing Plants +Equipment Sizing & Plant Layout Design +Industrial Services & Piping Design +Hygienic Engineering +Lean manufacturing, Continuous Improvement, TPM, 5S, Vertical Start-up, +Root Cause Analysis and Corrective Actions +Communication and Analytical Skills +Building & Leading Cross Functional Teams +Quality Management Systems (QMS) and Food Safety Management Systems (FSMS) +Construction and Operational Safety Best Practices (OSHA) +Sourcing Strategy with Supplier Evaluation and Supplier Selection +Brown field and Green field projects

My other skills include computer programming and web design. I play good badminton. I love travelling, reading and listening to good music.

Website- <http://abhinavpandey.com/> Blog- <http://abhinavpandey.com/blog/> Reading List- <http://www.abhinavpandey.com/blog/ratings/books/>

I aim to become a successful technical manager and lead major projects across the world, in effect, Changing the World and making it a better place to live in.

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## SKILLS

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Project Management	Process Engineering	Manufacturing
Food Industry	Mechanical Engineering	Leadership
Managerial Finance	Procurement	Civil Engineering
Construction Management	Construction Safety	Web Applications
AutoCAD	Matlab	Process Automation

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## EXPERIENCE

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### **Nestle S.A.**

01 / 2013 - Present

*Project Engineering Manager*

Leading design, procurement, and execution of a complete milk processing plant (700,000 liters/day) at Baramati, Maharashtra; a joint venture, between Nestle & Schreiber Dynamix.

- Project cost ~ INR 2,000 million

Key Activities: +Compiled detailed project management plan (scope, time, cost, quality, resources, risk, procurement, communications, etc.) +Basic and Detail Design (civil building, equipment & piping specifications, plant & piping layout, etc.) ensuring infant nutrition production environment & best engineering practices +Managing functional stakeholders from two companies - Nestle & Schreiber Dynamics & project team of 18+ resources +Led execution, monitoring & controlling of the project ensuring safe work practices & first-time-quality. Monthly project status reporting to Nestle HQ. +Implemented 5S across the plant, executed HIRA, HACCP studies & assisted in creating Quality Management System (QMS) and Food Safety Management System (FSMS)

Major Systems Include: +5\* 35kL/hr milk reception facility +6\* CIP facility for outgoing milk tankers +40kL/hr milk processing & ~600kL storage capacity +Multi-stage evaporator & Spray Dryer (CIP-enabled) +Cleaning In Place for complete plant +Lean & Dense phase and Pressurized & Vacuum powder conveying +Filling and Packing machines, ~300 ton capacity warehouse +Central control room for the highly automated plant; 3 process technicians + contractual labor per shift to operate the whole plant +Industrial services include HVAC systems, Refrigeration Plant, Air Compressors, Diesel Generators, Water Treatment Plant, Waste Water Treatment Plant, 132kV sub-station, Biomass Boiler, etc. +Production floor area~4500 sqm +Parking/Waiting space for 36 milk tankers, In/Out weigh bridges, raw milk sample collection and testing Lab

+Major 3rd parties include GEA Group (Westfalia, TDS, Niro, France, NuCon, India), Fristum Pumps, Ion Exchange, Diligent, Kirloskar, Forbes Venkye, Armstrong, Rockwell, AWH, etc.

## **Nestle S.A.**

01 / 2012 - 08 / 2012

*Project Leader*

Leading design & construction of completely new social block, canteen and laundry services catering to 2,700 operational manpower of Ponda Factory.

- Project cost ~ INR 40 million

Key Activities: +Compiled detailed project management plan (planning for scope, time, cost, quality, resources, risk, procurement, communications, etc.) +Basic and Detail Design (civil building and amenities) in coordination with operations team, human resources and factory administration +Conducted procurement in close coordination with centralized Purchase team. +Led execution, monitoring & controlling of the project ensuring safe work practices & first-time-quality. Monthly project status reporting to Nestle HQ. +Demolition of existing social block and canteen facilities +Manage demolition, new construction and transient duration among both such that existing plant operations were not affected.

Major Systems Include: +Personal lockers, change room, washrooms and laundry facilities for 2,700 people +Facility divided into five units - Gents: executive & contractual, Ladies:executive & contractual, and a common laundry facility +Cloth washing, drying and pressing machines

## **Nestle S.A.**

09 / 2010 - 08 / 2012

*Project Leader*

Leading design, procurement, installation and commissioning of a second chocolate manufacturing facility (18,000 tons/ yr) in Ponda Factory, a complete renovation and transformation of existing old setup to produce 4 new + 2 existing recipes - Munch, Kit Kat, Milky Bar, Milky Bar Choo, Alpino & Premium Milk Chocolate.

- Project cost ~ INR 175 million.

Key Activities: +Compiled detailed project management plan (planning for scope, time, cost, quality, resources, risk, procurement, communications, etc.) +Basic and Detail Design (equipment & piping specifications, plant & piping layout, etc.) ensuring best hygienic engineering practices +Conducted procurement in close coordination with centralized Purchase team. +Managing stakeholders from Production, Quality, Supply Chain, Maintenance, etc. +Led execution, monitoring & controlling of the project with best standards of safety & first-time-quality. Applied concepts of resource leveling, fast-tracking, crashing, etc to achieve a very challenging project timeline. Monthly project status reporting to Nestle HQ. +Led commissioning/ vertical start-up of the plant, coordinating with several equipment specialists and operations team members +Implemented 5S, executed HIRA, HACCP studies & assisted in creating

Quality Management System (QMS) and Food Safety Management System (FSMS) + Managed the complications and coordination needs to execute a Brown Field project in a operational food processing plant, project location was in center of existing plant

Major Systems Include: +Chocolate Manufacturing Equipment including silos, mixers, refiners, conches, storage tanks, pumps, sieves, etc. +Cocoa butter/ liquor melting, storage and transfer facility +Major jobs in renovating existing raw material conveying, oil melting and other facilities +Redesign of plant control systems +Dismantling of existing equipment, equipment foundations, access platforms

- Major 3rd parties include Buhler, SPX, Russell Finex, Rockwell, etc.

## **Nestle S.A.**

09 / 2011 - 03 / 2012

*Project Leader*

Leading design, procurement, installation and commissioning of a Chocolate Block Making facility to manufacture chocolate blocks, which were to be consumed in other Nestle factories as intermediate product for Product Munch manufacturing.

- Project cost ~ INR 60 million.

Key Activities: +Compiled detailed project management plan (planning for scope, time, cost, quality, resources, risk, procurement, communications, etc.) +Basic and Detail Design (civil building, equipment & piping specifications, plant & piping layout, etc.) +Conducted procurement in close coordination with centralized Purchase team. +Managing stakeholders from two Nestle factories - Production, Quality, Supply Chain, etc. +Led execution, monitoring & controlling of the project. Monthly project status reporting to Nestle HQ. +Led commissioning of the plant, coordinating with equipment specialists and operations team members, following concepts of vertical start-up, JIT, etc. +Implemented 5S across the plant, executed HIRA, HACCP studies & assisted in creating Quality Management System (QMS) and Food Safety Management System (FSMS) +Ensured timely completion of project, which was very critical for start-up/ commissioning of another factory.

Major Systems Include: +Chocolate Block Making line with 1.5 tons/hr production +Storage/ Buffer tanks, Recirculation system +Filling and Packing machines +Civil Building with floor space ~300 sq m.

- Major 3rd parties include Carle & Montanari, Axtel, SPX, Rockwell, etc.

## **Nestle S.A.**

06 / 2011 - 01 / 2012

*Project Leader*

Leading design, procurement, installation and commissioning of a new chocolate manufacturing facility (25,000 tons/yr) for brown and white chocolate - Munch, KitKat, Milky Bar.

- Project cost ~ INR 640 million.

Key Activities: +Compiled detailed project management plan (planning for scope, time, cost, quality, resources, risk, procurement, communications, etc.) +Basic and Detail Design (civil building, equipment & piping specifications, plant & piping layout, etc.) with multiple consultants (SEMAC, TCE), ensuring best hygienic engineering practices +Conducted procurement in close coordination with centralized Purchase team. +Managing stakeholders from Production, Quality, Supply Chain, Maintenance, etc. +Led execution, monitoring & controlling of the project with best standards of safety & first-time-quality. Applied concepts of resource leveling, fast-tracking, crashing, etc to achieve a very challenging project timeline. Monthly project status reporting to Nestle HQ. +Led commissioning of the plant, coordinating with several equipment specialists and operations team members, with concepts of vertical start-up, JIT, etc. +Implemented 5S across the plant, executed HIRA, HACCP studies & assisted in creating Quality Management System (QMS) and Food Safety Management System (FSMS) +Managed the complications and coordination needs to execute a Brown Field project in a operational food processing plant

Major Systems Include: +Chocolate Manufacturing Equipment including silos, mixers, refiners, conches, storage tanks, pumps, sieves, etc. with 5 tons/hr production capacity +5\* Pneumatic Conveying Raw Material Tipping Stations +Raw

Material Reception, Storage and Transfer facilities for 55,000 tons/yr plant capacity plant (10+ major ingredients and several minor ingredients) +Production floor space ~7,000 sq m. +Industrial Services like Plate Heat Exchangers (PHE), etc.

- Major 3rd parties include Buhler, Gericke, SPX, Russell Finex, Rockwell, Rohan Builders, etc.

### **Nestle S.A.**

01 / 2011 - 05 / 2011

*Project Leader*

- Leading design, procurement and construction of new project office and project stores for upcoming brown field expansion project. Project cost ~ INR 25 million.
- Preparation for upcoming brown field expansion project +Basic P & IDs, plant layout, building drawings, etc. +Planning factory shutdowns for project work

### **Nestle S.A.**

08 / 2010 - 12 / 2010

*Technical Management Trainee*

- Understanding the chocolate manufacturing processes and machinery in Nestle Ponda, Goa Factory +Raw material reception and storage +Chocolate making process +Moulding, Enrobing, Extrusion, etc +Primary, Secondary and Tertiary packing +Warehousing.
- Assisting execution of ongoing Praline manufacturing facility project. +Preparing piping execution drawings +Leading civil & mechanical contractors at site +Coordinating plant commissioning with stakeholders from Production, Quality and other departments.

### **Nestle S.A.**

06 / 2010 - 07 / 2010

*Technical Management Trainee*

- Overview of the Nestle business in India
- Understanding the management of Capital Investment Projects in Nestle
- Theoretical learning of tools such as Value Engineering Analysis, Vertical Start up, etc via case studies of previous projects

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## EDUCATION

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### **Indian Institute of Technology, Roorkee**

2006 - 2010

*Bachelor of Technology , Mechanical Engineering*

Design, development and testing of an experimental set-up of Cavitation Jet Erosion Test to estimate Cavitation erosion resistance of materials as per the guidelines listed in ASTM G-134.

Integration & performance analysis of Flywheel Energy Storage System(FESS) in an ELPH vehicle with pre-transmission torque coupling. Acknowledged Research Paper.

Developed an online portal to decentralize the website management task.

Information Management Group, Badminton, Trekking, Event Management

### **University of Grenoble**

2009 - 2009

*Summer Internship , Mechanical Engineering*

Modeled and Simulated the working of a Paper Refiner machine using concepts of fluid mechanics. Introduced a new

quantity Sharpness Number (SN), which defines a Refiner machine irrespective of external parameters such as fluid viscosity, blade velocity, power, etc. As the Refining process is better understood now, the paper makers can carry out the process accurately & efficiently in terms of paper quality & power consumed.

**Ramjas School, Pusa Road, New Delhi**

2004 - 2006

*Higher Secondary , Sciences*

**Vidya Public School, New Delhi**

1994 - 2004

*High School*

Debate team, Badminton

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**CERTIFICATIONS**

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**Project Management Professional (PMP)**

06 / 2014

*Project Management Institute (PMI) · License: 1725315*

**IGBC Accredited Professional**

07 / 2014

*Indian Green Building Council (IGBC)*

**Energy Manager & Energy Auditor**

12 / 2014

*Bureau of Energy Efficiency*

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**LANGUAGES**

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**English** ( Full professional proficiency )

**Hindi** ( Native or bilingual proficiency )

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**PUBLICATIONS**

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**Integration and Performance Analysis of Flywheel Energy Storage System in an ELPH Vehicle**

05 / 2009

*Int. Journal of recent Trends in Engineering, vol.1, n.5, May 2009 · Authors: Abhinav Pandey, Abhishek Jain, Vipul Arora ·*

<http://www.academypublisher.com/ijrte/vol01/no05/ijrte0105010014.pdf>

**ABSTRACT** The paper deals with the study related to integration of Flywheel Energy storage system (FESS) to an already available model of parallel hybrid vehicle with pre-transmission torque coupling, i.e., replacing the conventional chemical battery with an equivalent mechanical battery. Advantages like high reliability, long cycle life, high energy storage capacity and deep discharge of an FESS can potentially enhance the performance of the hybrid vehicles. FESS employed for the analysis comprises an integrated flywheel homopolar inductor machine with High-frequency drive. The simulation results of an Electrically Peaking Hybrid (ELPH) are used as a base work in the present analysis. The ELPH model uses a control strategy to optimize the vehicle performance with a major concern for battery performance. The paper analyzes the performance of considered FESS model under the same control strategy and driving conditions. A MATLAB/SIMULINK model is used for the analysis of the vehicle for both urban and highway drives. Finally a comparison is drawn between the performance of the chemical battery, working in its best efficiency range, as a result of the applied control strategy, to that of the considered FESS. It is inferred from the simulated results that the performance of employed FESS is satisfactory in comparison to chemical batteries. It is therefore expected that FESS can be effectively employed in hybrid vehicles.

