

# PAVNEET SINGH VASIR

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## PROFILE

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An Industrial engineer graduate with specialization in Reliability and safety engineering with extensive knowledge of manufacturing environment. Nine months experience with one of the largest super abrasive grinding wheels manufacturers in India. One-year part time experience in Canada's largest grocery meal kit delivery service. Having number of engineering projects with industries. Combined skills of mechanical and industrial engineering to efficiently deal with industrial problems.

## WORK EXPERIENCE

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- February 2019- Present (part time) Quality control checker, **Marche Good Food**  
Checking quality of the packaged products in fulfilment department. Using FIFO aspects for inventory management. Cross checking PO of each order by customer during packaging. Fulfilling the demand of required target orders per shift. Careful integration of quality KPIs for a packaging line.
- June 2017- January 2018 (full time) Graduate engineer trainee, **Wendt India limited**  
Worked in customer support applications and sales team. Developed monthly sales KPIs to meet the desired targets. Hands on training of operating and wheel setup on machines. Application studies and test runs for customers to provide solutions for required grinding applications. Used data collection & ERP system to monitor trends in company's growth. Preparing cost estimations for customers' new product developments. Providing training to customer's staff for using the grinding wheels.
- June 2016-July 2016 (Intern) Mechanical engineer trainee, **Bosch Service station**  
Performed various case studies indulging with Ergonomics of different automobiles running in Indian market. Analyzed designs of 6 vehicles (three different segments SUV, Sedan & Hatchback) and performing study in human factors engineering to decide uncomfortably in the best-selling vehicles in India.
- June 2014-July 2014 (Intern) Mechanical engineer trainee, **Rail Coach Factory (Indian Railways)**  
Hands on experience with welding and CNC machines in machine shop for laser cutting. Proposed solution for design of a transformer car (coach) for Head on Generation (HOG) rather than providing power to bogies through HOG locomotive with estimated savings of \$1.28 Million a year for 2 trains.

## EDUCATION

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- January 2019-Present    Meng Industrial Engineering, *Concordia university*
- August 2013-May 2017    Bachelors Mechanical Engineering, *National Institute of Technology, Jalandhar*

## PROJECTS

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- September 2019-  
December 2019    *Reliability analysis* for fleet of locomotives  
Analysis of diesel locomotives by use of FMEA and FTA and determine the cost of warranty to the manufacturer by using reliability failure tools built in Microsoft excel.
- September 2019-  
December 2019    Applied optimization by CPLEX optimizer  
Modelled **Russian GP 2019** formula 1 race strategies by using mixed integer linear programming to match with the actual results from the race data. Managed to match 90% results with actual race data by modelling.
- June 2016-July  
2016 (Intern)    *Value stream Mapping*  
Applied lean concepts for a layout in **iSun, Montreal**, calculating takt time, applying continuous flow to increase operator utilization by 28% and increasing the value-added time utilization.
- January 2019-  
April 2019    *Arena simulation* of warehouse  
Modelling project on **Montreal Polymers** warehouse to optimize the space utilization of the warehouse. Provided results by creating the simulation model to increase warehouse space and operator time utilization by 7% and 9% respectively.
- January 2019-  
April 2019    *Hypothesis testing* using *Minitab*  
Analysis of failures for left- and right-hand Air ducts in **Metelix products, Brampton** using Minitab and Statistical Process Control charts.
- August 2016-  
May 2017    Portable waste management plant  
Designed and fabricated two portable systems; one to generate cooking gas from left out waste food from hostels and other to convert different waste plastics grades into useful liquified fuels with low Sulphur content.

## SKILLS

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- Software skills    Arena, Minitab, PTC Creo, CPLEX, Microsoft office, VISIO
- Interests    Reliability, Continuous improvement, Safety, Quality, Lean
- Personal Skills    Creative, Self-driven, Team worker, Calm & even temperament

## EXTRA CURRICULAR

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Volunteering	Khalsa aid Canada, Punjabi Community healthcare
Organizing & Management	Member of Society of Mechanical engineers, NIT Jalandhar 2014-2016 CO Head of Society of mechanical engineers, NIT Jalandhar 2016-2017 Organizer of Robowars in Techfest 2016-17 NIT Jalandhar
Hobbies	Badminton, Musical instruments.
Tech fests awards	Several Inter college Tech fests winner in Robowars, Robo soccer and participation in various colleges in Punjab, India

## CAREER OBJECTIVE

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To cater noteworthy input to the organization by being a dedicated employee by applying the knowledge and skills gained from practical exposure through industrial projects, in order to make the processes safer, optimized, reliable and waste free.