

# MATHESHAN PASUPATHIPPILLAI

Chemical Engineering | Ryerson University  
(647)-992-4870 • mpasupat@ryerson.ca

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## HIGHLIGHTS OF QUALIFICATIONS

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- ✓ **Dynamic, self-starter, results driven:** love working under tight deadlines and in fast-paced environments, gained much experience working in many industries consisting of retail, manufacturing, and food production
- ✓ **Strong leadership, teamwork, and communicational skills:** developed through the Leadership Program and fine tuned through leadership roles at work and volunteer placements
- ✓ **Computer Skills:** MATLAB, Microsoft Office (Excel, PowerPoint, Word), Quincy, Visual Basic
- ✓ **Able to analyze data** and write technical reports in an efficient and timely manner
- ✓ **Experience:** worked on many continuous improvement projects relating to Safety and Quality, and showed initiative in carrying out assigned responsibilities and tasks
- ✓ **Presentation and report writing skills:** strengthened through specialized academic courses focusing on verbal communication, formal reports and presentations

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## WORK EXPERIENCE

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### Supply Chain Intern –Product Commercialization, Nestlé Canada

May 2019 – August 2019\*\*

- Applying various project management tools and skills to ensure the on-time launch and flawless execution of complex I&R projects
- Leading various cross-functional teams to identify and mitigate risks and opportunities, identify solutions to remove roadblocks and drive corrective action to meet project goals and business commitment.
- Executed and wrote protocols/procedures for validation and process improvements purposes
- Working with various Project Managers to help with product releases in multiple businesses (confectionery, beverages, food & ice-cream)
- Provide transparency and communication on project & portfolio status to cross functional team members and Leadership Team using reports, dashboards and presentations

### Engineering Intern –Project Management, Agropur-Natrel Division

January 2018 – August 2018

- Helped implement various projects such as Palletizers and Robotic arms to help increase OEE efficiency by over 30%, cut costs related to labour, and increased operational reliability
- Responsible for supporting production by improving processes for Bags, Creamers, Poly, and Fillers
- Worked with operators and maintenance workers to configure the lactose-free filtration system which helped optimize costs, durability, and reliability
- Used Auto-CAD to design a pallet and chose raw materials to use to improve strength of pallets leading to increased usage life
- Troubleshoot and helped repair failing production lines to prevent premature failures; used a root cause analysis to determine how to address issues in the best manner
- Worked closely with the Quality Control Department, and helped create and upgrade existing SOPs, increasing both worker safety and the accuracy of content

### Engineering Intern –Product Development, The Woodbridge Group

September 2016 - December 2016

- Supported lab scale and lamination trials involving automotive headliners BOMs
- Worked on the design of a new lamination system that allowed for improved properties (flexural strength, bonding, acoustics) This was designed for mass manufacturing. To create smooth surfaces, the likelihood of sinks, porosities, and shrinkages were taken into account while designing the system
- Performed a Pareto Analysis using data collected from supplier scrap to determine the root cause of defects and created methods to improve scrap levels.
- Prepared bill of materials and performed material cost analysis to determine feasible alternatives to projects
- Conducted research to support Process Engineering Team for ongoing R & D projects, and to troubleshoot and repair mechanical defects within the laminating machines
- Prepared technical reports including lab reports, observations and recommendations

### **Health & Safety Representative, General Nutrition Centre** *November 2014 -September 2018*

- Sold merchandise with compliance to GNC standards and meeting daily quotas resulting in a top 10% ranking amongst all employees
- Used continuous learning skills to constantly improve knowledge on new supplements to better understand a product and how it could benefit a potential customer
- Leadership skills were utilized to meet “GNC store standards” on a daily basis. Tasks include managing the team members, resolving loss prevention issues, and other operational tasks requiring a high degree of communication skills as well
- Raised awareness about any potential hazards in the workplace, and made sure all safety equipment (Fire Extinguisher, Safety Mirrors, Lights) were all fully operational

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## **ENGINEERING WORK**

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### **Lab Work**

- Worked in the P3T lab; a world class testing facility which conducts accurate, timely, unbiased and cost effective physical property evaluations of product materials
- Display good laboratory bench techniques and understanding of the various lab instruments

### **Electrical Projects**

- Placed first at the school VEX Robotics Competition for designing a robot to pick up and drop of rings at designated areas
- Constructed a DC motor and generator to show the influence of electromagnetism in the conversion of energy in motion to electricity

### **Mechanical Projects**

- Redesigned a flashlight to be lighter, and more efficient by finding suitable cost-effective alternatives to use as raw materials
- Utilized Auto-CAD to design a 3-D model of a pallet, which was then approved and created using aluminum

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## **EDUCATIONAL BACKGROUND**

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### **Bachelors of Engineering (B.Eng), Chemical Engineering**

*Graduated June 2013*

Ryerson University, Toronto, ON

- Dean's List: 2013
- Additional courses taken to develop Business Background (Economics, Human Resources, Data Management, Critical Analysis, Global Management)

### **Institute for Healthcare Improvement**

*Completed September 2017*

Ryerson University, Toronto, ON

- Gained a thorough understanding about Healthcare practices and opportunities for innovation in the industry
- Worked on several practical situations and helped solve the issues present in these situations, in an innovative fashion while taking many factors into account such as audience, costs, raw materials available, sustainability

### **R.H. King Academy**

*September 2009- June 2013*

Toronto, ON

- Received Honours Award (2009-2010, 2010-2011, 2011-2012, 2012-2013)
- Leadership Certificate for successfully completing the Leadership Program
- O.S.S.D received (June 2013)

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## **EXTRACURRICULAR ACTIVITIES**

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- Member of the Kondavil Tamils Association: Raised awareness and funds to help resolve issues in Sri Lanka relating to education and accessible clean water sources
- Interests: Chemistry | Health and Wellness | Sustainability | Friends & Family | MMA | Swimming