

MRITHULA KUMARR

📍 KENSINGTON, SYDNEY - 2033 · 📞 0424800563

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Professional summary

Food process engineering graduate with a strong background in quality management tools and food safety regulations. Professionally skilled in project management, microbiological laboratory techniques and quality control systems. Dedicated and passionate about innovating sustainable products for a better world.

Skills

- Six sigma, HACCP, GMP, SSOP
 - Project management
 - MS office, Microsoft projects
 - Minitab, MATLAB, Aspen, Berkeley Madonna
 - Linguistic knowledge – Fluent in English, Hindi, Tamil and Deutsch (Level A1 - Certified)
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Work history

Quality assurance intern

AAVIN – The Milk Factory, Government of Tamil Nadu, India Dec 2017 – Jan 2018

- Designed HACCP plan for the pasteurization and packaging of milk, production of ghee, butter milk and ice cream.
- Overlooked quality control systems for undisrupted production of ISO qualified products.

Research Assistant

Defense Food Research Laboratory (DFRL), Mysore, India Jan 2017 – June 2017

- Analyzed MTCC cultures for production of poly γ glutamic acid, using dye agar diffusion method.
- Designed experimental methods using RSM and analyzed polynomial equations in Minitab.
- Carried out experiments using TLC, PGA, DSC, Folin - Lowry test, Proximate analysis, FTIR and NMR for product characterization.

Research assistant

Institute of Chemical Technology, Mumbai May 2016 – August 2016

- Designed the experiments to optimize the extraction of Lutein from marigold flowers using Three Phase Partitioning technique and its analysis using spectrophotometer and colorimeter.
- Conducted field work for collection of used marigold flowers from local markets in Mumbai.
- Submitted a detailed report of the study to the Indian Academy of Science. Also, presented a detailed description of the work to around 500 students at the Government College of Technology.

Production intern

Lakshmi Textile Mills, Coimbatore, India

April 2015 – June 2015

- Coordinated with various department to analyze respective resource management techniques and suggested few cost saving measures.
- Inferred the industry's integration of production to supply chain and presented it to the company's CEO and other board members.
- Implemented supplier quality program to assure the quality of incoming resource.

Product Development Lead

UNSW, Sydney

June 2018 – November 2018

- Lead the product development team at UNSW to produce edible cutleries using food waste.
- Implemented innovative techniques for the incorporation of food waste into a new product satisfying the current demand and trend.
- Optimized process techniques, estimated cost, and scale up specifications for production of edible cutleries.
- Exhibited the product to delegates from the University of new South Wales.

Relevant course work

Process and Product Quality in Engineering

June 2018 – November 2018

- Solved case studies using the concepts of Total Quality Control, Baldrige award, scoring, ISO 900:2015 and gaps approach.
- Used Minitab to develop cause and effect diagrams, pareto chart, N7 tools, process control and attribute charts, to analyze the case study.

Engineering Project Management

June 2018 – November 2018

- Pragmatic understanding of organizational structure and culture, project selection, project times and cost estimates, project plan, resources and cost scheduling and project closure.
- Managed a team of five students for estimating and prioritizing the project for the given case study of a \$100M business.
- Developed WBS and linked with OBS and conducted the project closure for the given case.

Additional work experience

Casual sales assistant

Paul's USA Direct Outlet, Homebush

August 2017 – Till date

- Dealt counter billing and served customers in a business with \$8K sales per day.
- Managed stock auditing, packing, unpacking and merchandising of more than 1000 pieces of clothing per day.
- Maintained the store clean and hazard free throughout the shift.

Grad shop, UNSW

December 2017 – June 2018

- Assisted in grads dressing and seating allowance.
 - Handled more than 200 customers per hour during ceremonies.
 - Assisted diverse cultural and multi linguistic customers with shopping and graduation photographs.
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Extracurricular activities

- Topped among 11 million students to represent the state (Tamil Nadu) at the Aspire internship program hosted by the Department of Science and Technology, Government of India.
 - Lead the IT support team for the event “Exordium” and “Elyzia” at Government College of Technology, India. Built the website and maintained participant database for both the events.
 - Chief organizer of the 3 day - industrial visit program for a group of 500 students to the southern states of India, including Central Marine Fisheries Research Institute, Kochi and KDHP Tea house, Munnar.
 - Treasurer and sponsorship team lead for the event “Exordium”, a national level technical symposium. Handled more than \$10k and maintained the detail of expenses.
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Volunteering experience

- Member of Food Science Association at UNSW. Volunteered in organizing the Industry nights and association meetings.
 - Volunteered for a month at the Aiya medical centre, Homebush for the community. Helped in maintaining the health record of patients and appointment bookings.
 - Selected to volunteer at the AIFST convention, 2019 which will be held on July 1st and 2nd.
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Education

- Master of Engineering Science (Food Process Engineering) July 2017 – Expected July 2019
University of New South Wales, Sydney
 - Bachelor of Technology (Industrial Biotechnology) July 2013 – June 2017
Government College of Technology, Coimbatore, India (Distinction average)
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Publications

Kumarr, M. M., Raj, J. X., Gopalan, N., Ramana, K. V., & Sharma, R. K. (2018). Poly (γ -) Glutamic Acid: A Promising Biopolymer. *Defence Life Science Journal*, 3(3), 301-306.

References

Details will be shared on request.