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Gurpreet Singh

0460 636 957, gs.brar@outlook.com

Unit 4/18 Meiklejohn Street, Numurkah 3636, VIC Australia

**Academic Gold Medalist.**

**CAP®, CPEng, NER, APEC Engineer, IntPE(Aus), RPEV**

**Career Statement:**

Qualified and experienced **Engineering & Project Professional** with **15 years of** experience in food industry; passionate about devising innovative solutions that ensure smooth and profitable plant operations.

**Qualifications:**

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|  | **Bachelor of Technology**Electronics & Instrumentation Engineering.*India (2004).* |  | **Advanced Diploma**Process Instrumentation & Control.*Singapore (2013).* |
|  | **Certificate**Advanced Process Control.*USA (2010).* |  | **Certificate**Process Instrumentation.*USA (2012).* |
|  | **Professional Certificate**Project Management & Scheduling.*Singapore (2013).* |  | **Certificate**Process Control Systems.*USA (2011).* |
|  | **Certificate**Project Control & Scheduling*Singapore (2013).* |  | **NZ Certificate**Project Management.*New Zealand (2020).* |
|  | **Post Graduate Diploma**Information Technology.*New Zealand (2021).* |  | **Master of Engineering**Electrical Engineering*Australia, currently enrolled.* |

**KEY SKILS**

* Project Management.
* cGMP, and HACCP.
* CMMS, SAPTM.
* Hygiene Engineering Design.
* Process Engineering & HAZOP.
* Industrial Automation.
* Change Management.
* Maintenance Management.
* Reliability Engineering.
* Continuous Improvement.
* Validation & Qualification.
* Advanced Process Control.
* Capex & Asset Management.
* Compliance and standards.
* Electrical engineering.

**PROFESSIONAL MEMBERSHIPS**

Engineers Australia, Australia

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International Society of Automation, USA



Project Management Institute, USA



**TRAININGS**

* **PLC programming.**
* **HACCP.**
* **Relational database.**
* **Engineering standards.**
* **Project Management.**
* **Continuous improvement.**
* **Electrical Regulations.**
* **Food safety.**
* **HV switching.**
* **Compliance systems.**
* **SCADA**
* **Process control loops.**
* **Electrical fundamentals.**
* **Instrumentation fundamentals.**

**Professional History:**

**ENGINEERING PROJECT MANAGER Feb 2024 to Present**

**Saputo Dairy Inc.**

**Summary of duties:**

* Provide electrical & automation engineering support on national level across 7 sites. Electrical and automation design and delivery as part of projects and central electrical engineer. Delivery includes cable sizing, MCC & board design, maximum demand, selectivity, coordination design, commissioning of instruments, PLC configurations and selection, compliance to national and company standards, liasing with vendors, cybersecurity and project management, liasing with DNOs for power solutions.

**Key achievements:**

* Successful and compliant execution of assigned projects, 4 completed, 3 in under process across multiple sites.

**MANUFACTURING ENGINEER Dec 2021 to Feb 2024**

**Bega Cheese Ltd**

**Summary of duties:**

* Leading the coordination of increasing uptime, reduction in waste and increasing line efficiencies by methodologies of continuous improvement. Managing the daily and weekly downtime review, forward looking meetings for lines. Coordinating critical spares. Take part in rework handling meetings, production review meetings and take up actions and coordinate them. Generation and development of short interval management system. Conduction of maturity assessments for excellence criteria for site.

**Key Achievements:**

* Successful reduction in breakdowns attributed to training and skills development. Conduction of successful RCAs and Situational Problem Solving across all lines. Integration of OFS with real-time reporting system. Successful completion of projects such as AQS rollout.

**RELIABILITY SPECIALIST-Electrical Aug 2020 to Sep 2021**

**Mars Wrigley Ltd**

**Summary of Duties:**

* Site lead for reliability and maintenance management for electrical and automation systems. Manage opex budget, maintenance KPIs and report to technical manager. Arrange critical spares through purchase order management. Arrange external contractors for compliance-based work orders. Take part in daily maintenance meetings and take on escalations. Take reports from technicians and work with them to resolve breakdowns. Execute and manage allocated project spends. Ensure compliant calibration schedule, validation schedule and resolve CAPAs and escalation-cards.

**Key Achievements:**

* Lead successful external audits on engineering systems and maintenance management systems. Successful installation and commissioning of PLC systems in Chocolate Aasted panel. Management of OPEX budget and Maintenance KPIs within expected range. Successfully coordinated high profile HV shutdowns for the entire site.

**PROJECT ENGINEER Feb 2020 to Aug 2020.**

**Sphere Healthcare Pty. Ltd.**

**Summary of duties:**

* Project engineering for Can filling line and powder blending system. Preparation of RFQs and comparing proposals. Evaluation of technical vendors for checkweighers, metal detectors and coding machines. Engaging contractors for erection and commissioning activities. Authoring IQ, OQ and PQ documents.

**Key Achievements:**

* No significant achievements.

**LEAD AUTOMATION ENGINEER Sep. 2018 to Aug. 2019**

**Danone Nutricia.**

**Duties:**

* Site lead for automation project management and maintenance management for process and services projects. Manage reports from electricians and execute on escalations. Electrical and Automation project management for Milk Evaporator 2 installation and commissioning. APC roll-out on dryer.

**Key Achievements:**

* Lead a successful and compliant regional audit on control systems. Roll out of site wide engineering change management system. Successful implementation of continual improvement activities such as CIP recipe management system etc.

**AUTOMATION ENGINEER April 2012 to Sept. 2014**

**Nestlé Nutrition.**

**Summary of duties:**

* Lead CAPEx and NPD projects and participated actively in cross-functional operations improvement teams. Played a key role within the Project Engineering Team; supporting all maintenance and improvement projects in the Wet Processing Division. Work with reporting automation technicians and report their performance to automation manager. Resolved breakdowns; using advanced knowledge of plant systems to quickly and effectively restart production. Determined root causes of failures; using relevant software to identify problems and undertake debugging. Utilised SAP in the coordination of team projects; effectively undertaking asset and maintenance management, purchasing, goods movement, and business reporting. Undertook research into complex problems; used manuals and other resources effectively to solve complicated issues. Reported to senior staff verbally and in writing on identified opportunities to improve divisional operations, increase efficiencies and reduce production costs. Adhered to all company policies and procedures for maintaining a safe working environment that meets HACCP and Food Safety Management Systems standards.

**Key Achievements:**

* Played a role in achieving major operational improvements in coefficient of heat recovery from thermal heating processes for milk mixes. Achieved significant performance enhancements through projects and maintenance. Debugging a recipe control algorithm, leading to increased durations between failures in recipe routines.

**AUTOMATION ENGINEER Jan. 2009 to Feb. 2012**

**Cadbury**

**Summary of duties:**

* Performed similar tasks as in the above-mentioned role, supporting maintenance and CAPEx projects in the Cocoa Processing Plant. Resolved breakdowns and debugged systems to ensure the efficient running of the plant. Carried out central engineering functions such as utility service metering and ensuring compliance with regulations. Performed a significant role in plant operational safety reviews, actioning corrective and preventative items. Manage a team of 4 electricians.

**Key Achievements:**

* Played a key role in the successful operationalisation of winnower and bump less installation of essential metal detection systems; ensuring the safety of all food products produced. Implemented vital back-up and recovery procedures for automation application files, preserving the safety of important data. Coordinated the installation of refurbished control panels with PLC functions on hydraulic processing machines. Produced an important process improvement in roasting operations by tuning control loops and micronising operations; significantly reducing the probability of high temperature deviations. Assisted in process studies of the cocoa processing line, collaborating with third-party researchers evaluating the total carbon footprint for the plant.

**ELECTRICAL & AUTOMATION EXECUTIVE April 2008 to Dec. 2008**

**Nestlé**

**Summary of duties:**

* Worked within Engineering Team; leading CAPEx projects and assisting with breakdown and system improvement projects in the Culinary Plant. Managed plant instrument calibration: ensuring all elements of production control systems were executed efficiently and to all company and international food manufacturing standards. Coordinated back-ups for important plant information, including automation systems and automation historians. Worked closely with the Information Services Department, undertaking the replacement of automation system components. Manage and work together a team of 3 electrical and automation technicians.

**Key Achievements:**

* Took part in a new product launch commissioning a product called Bhuna Mix. Coordinated the automation of sauce bottle cleaning and filling. Commissioned a Nichrome filling machine with volumetric and cup-filling systems for dry culinary products. Represented the Electrical and Automation Team in Nestlé’s Cross-Functional Development Program.

**ELECTRICAL & AUTOMATION ENGINEER May 2005 to Mar. 2008**

**Nestlé**

**Summary of duties:**

* In addition to role mentioned above, undertook a wide range of important projects within the Engineering Team as described below.

**Key Projects:**

* Installation and commissioning of second pneumatic conveying system for vending mix plant. Retrofitting of bulk milk powder filling systems with PLC and reporting provisions. Installation of compliance systems such as online check weighers, metal detectors and networked net weight management system. Installation of high-speed continuous pulling form fill seal machine for small sachet filling. Operationalisation of Rovema GmbH continual retrofitting projects. Installation of cereal dry mix automation panels with reporting systems. Installation of cereal tin filling line. Installation and commissioning of new product blending and filling line called Daliya. Attended Nestlé Executive Development Program at MDI Gurgoan. Rolled out a factory-wide instrument calibration program and compiled a reference manual. Undertook a new product launch project incorporating multi-layer roller drying of cereals. Ensured all audits against NQS and ISO 22000 were completed successfully. Took part in an important project in progress; planning and initiating the retrofitting of vending mixes filling machine (Nichrome with a PLC-Servo Control system).

**E&A Trainee & Apprentice Jul. 2003 to Dec 2003 & May 2004 to Apr. 2005**

**Nestlé**

**Summary of duties:**

* Implementation of Nestle Quality System Element 4.8 for calibration management system across Moga factory. Preparation of Electrical & Automation single line diagrams for Vending Mix plant. Compilation of IO lists for Vending Mix plant and validation of Safeline metal detector systems.