Raghul Mohankumar **Electrical Engineer** (NOC 2133)

615-B, Windsor Street, Fredericton, New Brunswick, E3B4G3, Canada.



Click here to view portfolio website

An active electrical engineer with 8 years of extensive practical and technical experience in a competitive and international context.

raghulmohankumar@gmail.com

Analytical and professional specializing in new product development and engineering change management of electrical architectures.

A collaborative communicator focused on building relationships across business lines.



AREAS OF EXPERTISE

- **Electrical Machines**
- **Electrical Circuit Design**
- Wiring Harness Design
- Lighting Development
- **Electrical System Integration**
- Prototyping and Piloting
- **Electrical Components Selection**
- Failure and Risk Analysis
- Time Management and Prioritisation



ENGINEERING SOFTWARES

- AutoCAD Electrical
- MathCAD & R Programming
- **MATLAB & SIMULINK**
- VariPDM & VariClient
- Vertex ED19
- Microsoft Office Tools & SAP



LANGUAGES KNOWN

English, Tamil and Telugu











EDUCATION

Master's Degree in Electrical Engineering, 2021 - current University of New Brunswick. (Courseware includes Project Management)

Bachelor's Degree in Electrical & Electronics Engineering, 2008 - 2012 Anna University.



Canada

Fredericton, NB,



PROFESSIONAL EXCELLENCE

- Indiginisation of cost competent load weighing strain gauge sensor for elevator products.
- Design of Speed Indication Module for Rescue Operations during Human Trap conditions.
- Development of LED based Interior Lighting by engaging with suppliers for energy efficiency.
- Prototyping of Child Trap Monitoring system using Arduino UNO module.

KONE CORPORATION



2014 - 2021

PROFESSIONAL EXPERIENCE



Chennai, TN, India



Senior Electrical Engineer (1st October 2018 to 12th February 2021)

- Incorporating the engineering changes in Electrification Architecture by developing and implementing actionable and targeted change management plans for prototyping and piloting at production and field respectively.
- · Perform change impact assessments for potential risks, critical to quality factors and production feasibility.
- · Strategise with key stakeholders such as suppliers, frontline and production co-ordinators for driving and executing the change requests throughout the various stages of product change management.
- Implementation of changes in electrification architecture according to the periodic revisions of standards .
- · Analysing the quality feedbacks report related to the electrification module from the site and providing technical solution accordingly.

Electrical Engineer (23rd July 2014 to 30th September 2018)

- · Electrical System Design includes the wiring circuitry & harness schedule for various modules using Auto-CAD for the electrification according to the standards.
- The Component Selection includes Switchgear, Electrical Machines, Electrical Drives, Actuator Switches, Load Weighing Sensors, etc. based on the product configurations.
- The Prototyping & Verification of the entire electrical system in the In-House & Field.
- · Design of LED lighting System with Wiring Circuitry, Driver Selection, Lumen Calculation using Math-CAD.
- Supply Line & Pre-Production validation using SAP Software before the product releases.
- · Involvement in supplier manufacturing processes by analyzing & conveying the critical to quality parameters to resolve technical issues at supplier end.
- · Documentation of the circuit drawings, wiring harness drawings, operational sequence, product descriptions, bill of materials, etc. based on the product parameters.
- · Creation of bill of materials, item masters and product structure database in the VariPDM software.
- · Calculation of energy consumption for the electrical system in both Standby Mode & Operational Mode for the design of the energy efficient products.
- · Costing workout and costing comparisons based on the bill of materials and commercial requirements.
- Creation of Delivery Documentation Circuit Drawings for easy troubleshooting at site.



PROFESSIONAL EXPERIENCE

2012 - 2014

TATA ELXSI LIMITED



Bengaluru, KA, India



Engineer (18th July 2012 to 17th July 2014)

- Integration of the Hardware Drivers with the middleware and applications in the Set Top Box system.
- Prototype Testing includes framing of regular and ADHOC test cases using white and black box testing methodology.
- Validation of Motorola Embedded Devices for reliability, UI improvement, usability, regression and consistency.