

Aravind Chandran

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Key Skills

- 1+ year of mentoring students and administration duties in the University
- 2 years of hands-on and 8+ years of system-based design experience for Hazardous area equipment & installations
- In-depth understanding on the explosion protection area standards related to IECEx, ATEX and NEC norms
- Product expertise on explosion-proof local control stations, Power Distribution & Control Panels, Remote IO, Human-Machine Interfaces, CCTV systems and related system solutions with combinations of above
- Customer data analysis and SWOT analysis
- Market research and trend analysis with financial forecasting
- Project management and cross functional skills
- Lead & guide through periodic trainings & presentations for customers and colleagues on products and computer aided tools
- In-depth understanding of Incoterms and GST taxation for effective export & import handling in Singapore
- Active contribution towards set-up & implementation of team goals and strategies for higher efficiency & reduced lead time
- Platforms: ELCAD, Engineering Base, AutoCAD, SAP, Navision 2016, Microsoft CRM Dynamics, MATLAB, Microsoft Excel, Microsoft Word,

Assistant Professor and Senior Application Design Engineer (Switchgear & Automation) with 1+ year of experience in education industry and 10+ years of experience and a demonstrated history of working in the electrical, automation and manufacturing industry. Skilled in electrical and automation control systems design via computer aided engineering, project management, cross-functional team working and mentoring colleagues and customers through presentations. Strong engineering and pre-sales solution professional aiming to leverage my skills with a focus on Artificial Intelligence, Electrical and Automation Control Engineering.

WORK EXPERIENCE

Assistant Director - Academics, Kalasalingam Academy of Research and Education, Tamilnadu, India (Oct '23 – till date)

Assistant Professor, Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Tamilnadu, India (Jun '23 – till date)

- **Courses Handled:** Computational Linguistics and Natural Language Processing, Data Warehousing and Data Mining, Algorithms for Intelligent Systems and Robotics, German (Syllabus framed by myself acc. to the standards of A1 level of German exam conducted by Goethe Zentrum), Project Management (Syllabus framed by myself acc. to the standards of Project Management Institute, USA).
- **University level – Central Administration works:** Co-ordinating in effective functioning of the Design – Build – Operate Projects for the Engineering stream students (under 11 disciplines) in the category of Experiential Core. Involved in the entire administration till result publishing stage. Additionally, involved in the QS I-Gauge ranking process and coordinated with Academics part of the requirements.
- **Department level – Administration works:** Involved in NAAC - Criteria-I accreditation process (2 cycles).
- **Club / Co-curricular activity works:** Program Officer – Tamil Mandram (*Tamil Club*)
- **Project Guidance to Students:** Mentored for 1 Team (4 students) of IV-year Capstone Project, 4 teams (16 students) of III-year Community Service Project, 6 Teams (28 students) of II-year Design – Build Project (Experiential Core), 1 Team (5 students) of III-year to Smart India Hackathon project.
- **Faculty Development Programs attended:** 8
- **Areas of Interest:** Natural Language Processing, Sensor Technology and Instrumentation, Data Analytics and Visualization, Machine Learning

Engineering Project Manager, Harithaa Power Engineers, Coimbatore, Tamilnadu, India (Jul '22 – Jun '23)

- Develop a broad knowledge of business objectives of internal and external stakeholders and build trust by maintaining an achievable road-map.
- Lead and mentor a team of 5 Engineers to complete multiphase projects efficiently from scratch levels to costing, time-frame, quality, information and contracts.
- Build strong relationship with clients and contractors to meet the project requirements and thereby achieving the stipulated results.
- Get together with sales managers and to devise new marketing policies of the product and project, thereby increasing the company awareness and corresponding increase in revenue.
- Key contact between the manufacturers and the company so as to establish timely delivery schedule for the smooth running of projects.
- Formulate and negotiate annual contracts with value added resellers to accrue an average reduction of 3-5% in development expenses and build effective distribution networks in key markets.

German Language Course (Start Deutsch)

(May '22 – Feb '23)

- Completed B1 Level of Start Deutsch course with Goethe Certificate.

Microsoft Powerpoint,
Microsoft Outlook

Certifications

- Internal Auditor according to ISO 9001:2015 standards
- Infra-red Thermographer – Level 1 certified
- CompEX – Competence Validation Tests in relation to IEC 60079-14 & IEC 60079-17 standards

Languages

- Malayalam (Mother Tongue)
- Tamil
- English
- German (Intermediate)
- Hindi

Application Engineer (Switchgear & Automation), R.Stahl Pte Ltd, Singapore (Oct '15 – Dec '21)

- Verified the customer RFQs, conceptualized, calculated and designed complex customer-specific solutions for use in explosion protected areas followed by the creation of techno-commercial quotations and drawings.
- Sales support in close co-operation with the corresponding manufacturing facilities and sub-suppliers interfacing engineering, production and quality and thereby execute, support and monitoring of orders till shipment.
- Implemented in-depth market analysis in order to identify potential market opportunities, competitors and worked on promotion of new products with an attractive pricing strategy by developing a broad knowledge of business objectives of internal and external stakeholders.
- Reviewed and evaluated monthly sales data, managed communication between customers and company based on market research and customer surveys obtained in order to ensure products meet and exceed the client expectations.
- Additionally, performed annual Internal Audit in the organization according to ISO 9001:2015 standards.
- *KPI achievements: achieved a target of over 150% in 2019 as an individual and averaged over 100% in the years 2020 and 2021 as a team thereby delivering the customer quotations & projects within our targeted (internal) and committed (external) duration.*
- *Represented the company and delivered talks in 10+ countries including Singapore, Malaysia, Thailand, Indonesia, Vietnam, India, Germany, Dubai, Australia, Saudi Arabia, etc.*

Electrical Project Engineer, OGRE Pte Ltd, Singapore (Sep '13 – Aug '15)

- Project: Electrical Survey of 380V, 50Hz Switch Boards on board Songa Mercur – Semi-submersible Drilling Rig, Vietnam Offshore
 - Proposed alternative solution with the help of a new layout with all the required specifications for the upgrading of existing switch board with a cost estimates and component lead times
- Projects: Electrical Equipment in Hazardous Areas of Trident XII, Ron Tappmeyer, JT Angel, Harvey H. Ward Jack-up rigs, India & Adriatic 1 Jack-up rig, Singapore
 - Carried out the Ex-inspection & related remedial works (as per the IEC 60079-14 & IEC 60079-17 standards) in the hazardous areas of the above-mentioned rigs which includes the update & maintenance of the project files such as the Hazardous Area Equipment Register, Hazardous Area Inspection Check Sheets and the Defects register
 - Liaising with the client and the vendor by preparing the competitive quotes & ensure the proper delivery of the materials on board, plan & update for the scheduled projects
 - Preparation of AutoCAD grid drawings showing the unique identification of the equipment on the hazardous area plan and the compilation of the report after the complete of the project

EDUCATION

- **Master of Science in Electrical Engineering** (specialization in Automation & Control Engineering), National University of Singapore (NUS), Singapore (Aug '12 - Jun '13)
- **Bachelor of Engineering in Electronics & Instrumentation Engineering**, Anna University, India (Aug '08 - Apr '12)