BHARATH CHITHIRAN

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PROFESSIONAL PROFILE

- Electrical Engineering graduate with 1-year Industrial experience in the manufacturing of Submersible pumps, AC and DC motors.
- Project Management Tools: Critical Path Method, Work Breakdown Structure, SWOT Analysis, PERT Project charter, and risk analysis.
- Application Software: MS Office (PowerPoint, Excel, Word, Outlook, Project)
- Proficient in the concepts of Power Generation Systems (Renewable Energy), electrical machine design, circuit design, supplier quality, and validation.
- High proficiency in Matlab/Simulink.
- Excellent electrical aptitude and interpret engineering drawings with excellent attention to detail.

EDUCATION

Master of Engineering: Electrical Engineering (GPA 83.5/100) **Sept 2017-Dec 2018**
University of Windsor, Windsor, ON

Completed coursework in Advanced Energy Storage, Project Management and Technology Entrepreneurship.

Bachelor of Engineering: Electrical and Electronics Engineering (CGPA 8.67/10) **Aug 2013-Apr 2017**
Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India

Completed coursework in Power Generation Systems, Transmission and Distribution, and High Voltage Engineering.

PROFESSIONAL EXPERIENCE

Electrical Testing Engineer, Sri Sai Industries, Coimbatore, Tamil Nadu, India **Jul 2016-Jul 2017**

- Contributed to designing, testing, and manufacturing of submersible pumps.
- Manage the development of new products and support engineering projects and report on electrical project status.
- Was responsible for conducting tests on submersible pumps and evaluating the test results.
- Developed documentation related to the electrical project as well as engineering activities.
- Was involved with engineers to develop part, component parameters, prepare drawings and component specifications.
- Supervised and trained a team of 4 members on testing procedures and safety measurements during testing.
- Prepared and maintained quality audits and inspections reports and related documents.

Graduate Engineer, Cheran Industries, Coimbatore, Tamil Nadu, India **Mar 2017-Jul 2017**

- Aided in, speed testing, load testing and assembling of DC and AC motors.
- Was given the responsibility of installing and repairing DC and AC motors.
- Coordinated with suppliers and customers relating to deadlines, quality trends, performance, and corrective action.
- Addressed customer complaints and taking counteractions to tackle and avoid them in the future by developing clear root cause analysis through the 8-D approach.
- Analyzed all products, evaluated all documents to ensure the maintenance of optimal quality and prepared monthly reports to evaluate performance.
- Prepared and maintained quality audits and inspections reports and related documents.

Internship Trainee, Deccan Industries, Coimbatore, Tamil Nadu, India **Feb 2017-Feb 2017**

- Contributed to designing, testing, and manufacturing of submersible pumps.
- The hands-on experience acquired on designing and installation of submersible pumps.
- Documented and communicated project activities and reports to management to provide visibility for the lean initiative.
- Addressed customer complaints and taking counteractions to tackle and avoid them in the future by developing clear root cause analysis.

In Plant Trainee, Tuticorin Thermal Power Station, Tuticorin, Tamil Nadu, India **Jul 2016-Jul 2016**

- Gained knowledge about power generation and distribution.
- Prepared and maintained inspection reports and related documents

HIGHLIGHTS OF QUALIFICATION

- Fluent in English – oral and written
- Able to multitask and work under pressure
- Energetic and efficient leader and team member with an unwavering work ethic
- Persistent, self-motivated, determined to acquire new knowledge and apply past experience and understanding to solve new problems and cope with new situations
- Extensive computer knowledge including MS office, internet use, and software packages
- Exposure to a worldwide range of cultures, and appreciation for cultural difference

AWARDS

First Class with Distinction (Bachelor of Engineering) 2013 - 2017

Awarded Army Welfare Education Society Scholarship 2014 - 2017

PROJECTS

Missing Data imputation using Fuzzy Expectation Maximization and **Sept 2018-Dec 2018**

Fuzzy Clustering based framework (FEMI)

In this algorithm, the missing data in a given record is estimated from similar records. The fuzzy nature of the given record is considered. With this nature, the record's membership degree is calculated with all available clusters.

Development of Energy Storage System for a Truck Using Ultra – Capacitor **May 2018-Aug 2018**

This project is concerned with the applications of ultra-capacitor (electrochemical capacitors) in electric drive vehicles in place of or in combination with batteries. The ultra-capacitor contributes to the rapid energy recovery associated with regenerative braking and to the rapid energy consumption associated with acceleration in electric vehicles.

Submersible Pump Design **Jan 2017-Apr 2017**

This industrial project presents the efficiency improvements in submersible pump sets by increasing the efficiency of squirrel cage induction motor by using Die-cast Copper Rotor (DCR) technology.

Energy Audit: Implying automation tools for monitoring electrical loads for economic ways of power utilization. **Nov 2016-Apr 2017**

PLC and automation tools interfaced with SCADA and HMI system is connected to the electrical loads monitoring the status of it. An economic way of power utilization was brought to the amendment. MFM controlled by the automation tools records the status in the spreadsheet.

Wireless Power Transmission **Jun 2016-Aug 2016**

To transmit electrical energy from source to load through wireless. Here solar energy is used as the source. The low input voltage from the solar panel is given to boost converter and boosted to a certain level.

Indo-Asian Solar Challenge **Sept 2015-Feb 2016**

Developed Solar Kart.