

MUGILEN ELANGOVAN, MBA

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PROFESSIONAL SUMMARY

A **risk identification and management** expert with 5 years of experience in the power and utility industry. An organized person, team-oriented professional capable of working cross-functionally and cross-culturally who has experience in data analysis, risk management, statistical models for asset life optimization and drive productivity tasks. Currently pursuing MBA at University of Strathclyde while working.

FUNCTIONAL EXPERTISE

- Risk Management
- Collaborative Leadership
- Communications and Presentations
- Solutions Design
- Cross-functional Coordination
- Analytical and Problem Solving

PROFESSIONAL SKILLS DEMONSTRATED

GENERAL ELECTRIC (GE POWER)

May 2013 – Present

World leader in power generation with expertise to deliver electricity from a wide spectrum of fuel sources and build the world's largest and most efficient turbines, balance of plant, upgrade and service solutions.

Lifecycle Productivity Engineer

June 2016 – Present

Successfully performed a variety of functions which includes asset lifetime extension productivity programs, tribal knowledge preparation (data cleaning), inventory management on a global scale and support field service on assessment works on an ad-hoc basis.

- **Risk Management:** Work on the prescriptive analytics task by identifying potential failure (early detection) and develop proposals on the possibility to increase lifetime of power industry assets to increase asset availability while preventing unnecessary maintenance. Evaluate predictive maintenance intervals to optimize cost and reduce asset downtime by analyzing the optimization models. This **decreases asset downtime and increases profit for customer**. As for **GE, an outage is pushed out of the contract and increases cost savings**.
- **Solutions Design:** Analyze asset failure modes of gas turbine components based on collected tribal knowledge data and generate optimization and statistical models to assist predictive analytic and lifetime extension tasks.
- **Cross-functional Coordination:** Collaborated with the finance and technical domain expertise to optimize cost reduction by constantly identifying lifetime extension or part interchangeability opportunities without compromising quality and strictly adhere to the clauses as per the contract with the customers. Established good rapport for future communication and continuous productivity identification.
- **Awards/Achievements:**
 - **Learn and Adapt to Win** - Awarded due to the successful completion of a pilot productivity program (**Productivity of approximately USD2million**) for one of the GE's GT24 gas turbine components. To date: completed **productivity programs valued at USD 7 million**.
 - **Deliver Results in An Uncertain World** - Awarded due to successfully handling significant volume of departure cases (**completed 3 cases in a week – complete GT, ST and generator assessment for departure feasibility**) which are key to meet productivity target for the year without compromising other deliverables.

Assessment Engineer

May 2013 – May 2016

Led gas turbine inspection activities during the preventive maintenance and major outages (**Successfully completed 21 minor outages and 9 major outages in 3 years**). Identified critical hardware issues and provided assessment recommendations to power plant customers on improvement and preventive measures during short inspections. Identified faulty parts to be replaced in major outages which provided **sales opportunity for GE** and an **opportunity for customer to have a higher efficiency & output** unit through upgrade.

- **Collaborative Leadership:** Prepared Gas Turbine inspection and assessment scope of work in co-operation with Technical Project Manager and collaborated in the development of project specific designs and components. Supported the quality management and EHS (environment, health and safety management) regulations on site. Worked closely with on-site support team to solve problems more efficiently. Trained new assessment engineers on-site prior to moving to a new role in June 2016 and still mentoring them to date.
- **Communications and Presentations, Problem Solving:** Ensured all findings and experiences gained from inspection assignments are well documented to ease research and development and product support. Communicated and interpreted the findings on-site to the client and recommended possible solutions.
- **Analytical and Problem Solving:** Led the root cause analysis (RCA) studies by identifying and investigating the reasons for forced outages/damages on-site and communicated the findings to the technical expert. Led to prevention of similar incidents from happening again which **avoided unplanned downtime for the customer** and created opportunity for **bonuses for GE due to longer grid time**.

PETRON REFINING & MARKETING MALAYSIA

October 2012 – April 2013

Involves in refining and retailing of petroleum products such as retail fuels, liquefied petroleum gas (LPG), commercial fuels, automotive and industrial lubricants and related services.

Territory Manager

Managed resources from the petroleum refining facility to petroleum products dealers in West Malaysia.

- **Cross-functional Coordination:** Communicated effectively with supervisor/head office on business opportunities, competitors' activities, and specific problems. Assisted in creating action plans – eg: *Modeled appropriate incentive program for dealers to increase products' competitiveness*. Assisted to implement safety programs and comply to controls requirements. Provided guidance/advice/training and technical services to dealers/consumers pertaining to petroleum products.

EDUCATION

Master in Business Administration (MBA). University of Strathclyde, Glasgow, UK (part-time - expected 2018)

Bachelor in Applied Science and Engineering (Mechanical Engineering). University of Toronto, Toronto, Canada (2012)

VOLUNTEERISM

GE Volunteer (2016 – Present): Actively participate in the volunteering activities as part of the Corporate Social Responsibility by General Electric. To date, have been actively involved in the habitat for humanity program.

OTHER RELEVANT INFORMATION

Software Knowledge: MS Office – Word, Power Point, Excel (Advanced), SAP System, MATLAB, Intermediate in C-programming, Minitab

Languages: English, Tamil, Malay