**ANNAPOORNI.M**

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**SUMMARY:**

I am an experienced **Project Engineer** with **7 years**  of experience with highly competitive technical and team management experience. I hold an In-depth experience of project development, product development cycle, technology and strategic planning for startup companies and Fortune100 companies spanning diverse industries. I can lead teams in developing new technologies and products to achieve positive outcomes, enabling substantial market share growth. Results-driven, but diplomatic professional able to work effectively in teams or independently to meet and exceed business as well as customer needs.

**EMPLOYMENT HISTORY:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the Organization | Position Held | Duration | From | To |
| Universiti Kuala Lumpur Malaysia | Graduate Research Assistant | 2 years  5 months | Jul 2016 | Dec 2018 |
| Lear Oragadam Automotive India Pvt Ltd, Chennai, India | Engineer – Program Management | 2 years  3 months | Jul 2012 | Oct 2014 |
| Kwang Sung Brake India Pvt. Ltd., Chennai, India | Quality Engineer | 1 year 5 months | Jul 2010 | Dec 2011 |
| Transpol Tradings (TECNOKRAT), Chennai, India | Executive Trainee (Electronics) | 1 year | July 2009 | June 2010 |

**EDUCATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| Course | Discipline | University | Year / Marks |
| PhD | Electrical and Electronics | Universiti Kuala Lumpur, Malaysia | Expected by Dec 2022 |
| M.B.A | Technology Management | College of Engineering, Anna university | 2013, 61%,  First-class |
| B.E. | Electronics and Instrumentation Engineering | Maharaja Engineering College, Anna University | 2009, 78 %,  First-class with distinction |
| HSCC | Maths, Physics, Chemistry | State Board of School Examinations | 2005, 75.5 %,  First Class |
| SSE | Maths, Science, Social Science | Central Board of Secondary Education | 2003,  First Class |

**WORK EXPERIENCE AND PROJECTS HELD:**

**Company: Lear Oragadam Automotive India Pvt Ltd**

**Designation: Engineer – Program Management**

**Duration: 07 July 2012 to 14 October 2014**

**Company Profile:** The Lear Corporation is a Fortune 500 company with world-class products designed, engineered and manufactured by a diverse team of talented employees. As a leading supplier of automotive seating and electrical, Lear serves its customers with global capabilities while maintaining individual commitment. With headquarters in Southfield, Michigan, Lear maintains 221 locations in 36 countries around the globe and employs approximately 122,000 employees. Lear is traded under the symbol [LEA] on the New York Stock Exchange.

**Roles & Responsibilities:**

* Product development of Automotive seating starting from product concept, product design, tool design, tool manufacturing, Product production and launch of end products.
* New Product development and launching Programs for Automotive Seating Programs in OEM environment.
* Execute the programs using Microsoft Project, PMP, Budget management, Program Profitability and Global program management tools (LPMP, PLM etc.,)
* Conduct and Co-ordinate periodic reviews (MOR, MGR format) to update Program status (risk and opportunities) with country and APO management teams.
* Lead the CFT for the successful launch of programs.
* Analyze customer and market needs and act as a champion for future product direction while ensuring the Company objectives are achieved.
* Prepare the business case for Make or Buy decisions and get management approvals.

**Achievements:**

* LEAR Employee of the Year – 2014.
* The smooth launch of the Micra, Sunny, Pulse and Scala) and mid-cycle. Enhancement programs of Seating to Nissan with Quality cost and Delivery Targets.
* Successful launch of X11M seating program for Nissan Ashok Leyland program.
* Flawless launch of Part level supply to Lear Mexico of L02B and Lear UK for X11M.
* The global program coordinators for Nissan V-platform programs.
* Cost-saving of 9.5% of sales value in 3-3-3 activity of Nissan programs.
* Tooling cost saving $ 1 Million by Localization of tool development.
* Best supplier award from Nissan in 2012 (Quality, Cost& Delivery).
* Certified QMS Auditor – ISO / TS 16949:2009.
* Certified Internal Auditor for 5S Assessment.

**Company: Kwang Sung Brake India Pvt. Ltd.,**

**Designation: Quality Engineer**

**Duration: 06 Jul 2010 to 31 Dec 2011**

**Company Profile:** Kwang Sung Brake India Pvt. Ltd., Is a Korean Brake parts and Steering Column manufacturing Company situated near Sriperambattur. We manufacture Brake Shells (Front, Rear and Backplate) and Steering column for Hyundai Cars.

**Roles & Responsibilities:**

* To create & maintain Documents and records related to Quality Assurance.
* To maintain TS 16949 documents and records.
* Had been the coordinator for SQMARK certification.
* To make and maintain Documents such as PPAP, FMEA, APQP, ISIR, Poka Voke, 8D, 5S, TQM / TPM and 7 QC tools.
* To create modules to measure the dimensions of the components using CMM.
* To Test and analyze UTM results.
* To conduct product Audit
* To assist in processing Audit
* To prepare and conduct SPC, MSA and Layout inspection.
* To prepare Rejection analysis and Countermeasure for the same.
* Customer support during Audit.
* Cost lost project.
* Productivity Improvement.
* Solve customer related issues.

**Achievements:**

* Had reduced the rejection rate of **the steering column** in the HA model (Hyundai eon) by implementing Poka-Yoke for the missing needle bearing.
* Introduced automated inspection of the **steering column** in RB (Hyundai fluidic Verna) using DMIS modelling in CMM. This has reduced the additional workforce engaged in the final assembly inspection.

**Company: Transpol Tradings (TECNOKRAT), Chennai.**

**Designation: Executive Trainee (Electronics)**

**Duration: 12 July 2009 till 31 June 2010**

**Company Profile:** Transpol tradings (better known as TECNOKRAT) is one of the leading car audio infotainment Installation Company in Chennai. It deals with Car accessories for high-end cars such as BMW, Audi, and Mercedes Benz, Ford, Toyota etc.. It is an authorized service centre for Alpine and Mercedes Benz.

**Major Customer:** Transcars, Audi, Sundaram Motors, Capital Honda, etc.,

**Roles & Responsibilities:**

* To identify the right product for the customer and to locate & get the same from the suppliers worldwide**.**
* Tackle the compatibility issues related to navigation systems for cars imported from other countries (China, Taiwan, Germany, etc.).
* To define and design the embedded custom boards for the car pc.
* To solve the compatibility issues related to application software for the custom design of the car pc.
* To develop the user interface for the car pc.

**Development Projects**

**CAR PC:** It is first of its kind to have Browsing facility and remote TV viewing facilities. The system can be used in any high-end cars and thus enables monitoring the office or home premises being in the car. The system is a revolution in the auto industry.

**Strengths and Skillset:**

* Highly motivated and quick learning skills at work
* Strong analytical skills
* Dynamic, confident and optimistic
* Thrive on working in a challenging environment
* Excellent verbal & written communication skills.
* Ability to interpret and handle challenges.
* Excellent interpersonal skills.

**PUBLICATIONS (7)**

**Book Chapters**

1. Krishnan P., Yaacob S., **Krishnan A.P.** (2020) Drowsiness Detection Using Electroencephalogram Anomaly Based on Spectral Entropy Features and Linear Classifier. In: Abu Bakar M., Azwa Zamri F., Öchsner A. (eds) Progress in Engineering Technology II. Advanced Structured Materials, vol 131. Springer, Cham. <https://doi.org/10.1007/978-3-030-46036-5_6>

**Journals**

1. **Annapoorni Mani**, Shariman Abu Bakar, Pranesh Krishnan, Sazali Yaacob, Markov Decision Process approach in the estimation of raw material quality in incoming inspection process, Journal of Physics: Conference Series, (Vol. 2107, No. 1, p. 012025). IOP Publishing. October 2021, <https://iopscience.iop.org/article/10.1088/1742-6596/2107/1/012025>
2. **Annapoorni Mani**, Shariman Abu Bakar, Pranesh Krishnan, Sazali Yaacob, Categorization of material quality using a model-free reinforcement learning algorithm, Journal of Physics: Conference Series, (Vol. 2107, No. 1, p. 012027). IOP Publishing. October 2021, <https://iopscience.iop.org/article/10.1088/1742-6596/2107/1/012027>
3. **Annapoorni Mani**, Shariman Abu Bakar, Pranesh Krishnan, Sazali Yaacob, Comparison of optimized Markov Decision Process using Dynamic Programming and Temporal Differencing - A reinforcement learning approach, Journal of Physics: Conference Series, (Vol. 2107, No. 1, p. 012026). IOP Publishing. October 2021, <https://iopscience.iop.org/article/10.1088/1742-6596/2107/1/012026>
4. Pranesh Krishnan, Sazali Yaacob, **Annapoorni Pranesh Krishnan**, Mohamed Rizon, Chun Kit Ang, EEG based drowsiness detection using relative band power and short time fourier transform**,** JRNAL, vol. 7, issue 3 in December, 2020. <https://www.atlantis-press.com/journals/jrnal>

**Conferences (National)**

1. Pranesh Krishnan, Sazali Yaacob, **Annapoorni Pranesh Krishnan**, Mohamed Rizon, EEG based drowsiness detection using relative band power and short time fourier transform, International Conference on Artificial Life and Robotics (ICAROB) 2020, Vol-25, pp- 323-327, ISSN: 2188-7829, January 13, 2020. DOI: 10.5954/ICAROB.2020.OS10-2

<https://alife-robotics.co.jp/members2020/icarob/data/html/data/OS/OS10/OS10-2.pdf>

1. **Annapoorni M Pranesh**, Sazali Yaacob, Abu Talib Othman, Pranesh Krishnan, (2016), RFID based markov chain model for automotive supply chain, Conference on Language, Education, Engineering and Technology 2016 (COLEET 2016). <http://ir.unikl.edu.my/jspui/handle/123456789/15075>

**Technical Proficiency:**

* Programming Languages : C, C++, Python, MATLAB, PLC
* Project Management Tools : MS Projects, Profile

**Accolades:**

* LEAR Employee of the YEAR 2014
* Obtained 2nd rank (Department level) during B.E/B.Tech Anna university exams.
* Presented a paper on “Medical applications of Nanotechnology” and secured second place.

**References**

**Ravi Kumar Matnahalli**

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