



# AKSHAY KRISHNA SELVARAJ

LINKEDIN : [linkedin.com/in/akshay-krishna-selvaraj-4a4224165/](https://www.linkedin.com/in/akshay-krishna-selvaraj-4a4224165/)

PHONE : +91 8015728264

EMAIL : [akshaykrishna13696@gmail.com](mailto:akshaykrishna13696@gmail.com)

## DESCRIPTION

A Mechanical Product Design Engineer with background in Medical Devices. These technical skills are backed up with the good Managerial skills on market research, project management and revenue generation scope identification from existing devices. Technology is the thing that fuels my passion. This sums about me.

## EDUCATION

**Master Of Engineering Management – University of Leicester**

Sep 2019 – Jan 2021

**Bachelor of Mechanical Engineering - KGISL Institute of Technology**

June 2014 – May 2018

## WORK EXPERIENCE

### 1. Lakshmi Life Sciences Private Limited

**[Product Design Engineer – Research & Development]**

**August 3<sup>rd</sup>, 2021 – Present**

**Day to Day responsibilities include:**

- Concept 3D design and 2D drafting
- Final 3D design and 2D drafting
- Concept and design presentation
- Preparation of BOM
- Linear Static Structural, Transient Structural, Non-Linear Structural, Buckling and Fatigue Finite Element Analysis studies.
- Designing products based on DFM and DFA guidelines.
- Applying GD& T for 2D Drawings
- DFMEA and Design Technical Documentation (ISO 13485)
- Maintaining Design History File
- Design Department representative for policy deployment

**Specialisations** : Weldments, Sheetmetal, Plastics and Machining

**Technical Tools** : **3D&2D** – Solidworks and Autodesk Fusion 360, **FEA** – Ansys Workbench, **CFD** – Open Foam, Python

**Project Tools** : Microsoft Teams, Microsoft Powerpoint.

### 2. Bakgiyam Engineering Private Limited [Product Design-Intern]

**11th June, 2018 – 8th June, 2019**

**Day to Day responsibilities include:**

- Sheetmetal Enclosure design and Plastic Enclosures, Frame Design
- Design considerations based on Design for Manufacturing
- 2D detailing of the parts with GD&T for Manufacturing in Autocad
- Thermal Analysis
- Preparation of BOM

**Specialisations** : Sheetmetal and Weldment.

**Technical Tools** : **3D&2D** – Solidworks, **CFD** – Open Foam, **2D** – Autocad

**Project Tools** : Microsoft Powerpoint, Microsoft Word

## ACADEMIC PROJECTS AND ACHIEVEMENTS

**University of Leicester [Coursework: Engineering Business Management]**

**April 2020:**

**Project Title:** Smart Water Faucet

**Description:** We Designed a product for a company called Boo Burger where the usage of Water is more. We saved a water around 30% from their day-to-day consumption. We displayed the time series data collected as a dashboard in Website using IOT

**Roles Played** : Product Design, Testing and Technical Presentation.

**Technical Tools** : Solidworks, Ansys Fluent, Python.

**Project Tools** : Microsoft Teams, Microsoft Projects, SEER

**KGISL Institute of Technology [Coursework: Final Thesis]**

**April, 2018:**

**Project Title:** Investigation on cladding of Inconel 600 on ASTM A105 WCB Cast steel by TIG Welding

**Description:** Studied the prospects of applying a material to improve corrosion and shear stress resistance on pipelines used in oil and gas fields. Considered Friction, Wear rate and cyclic stresses to arrive on the conclusion

**Technical Tools:** Python **Library used:** Math

**Date of Birth:** 13-06-1996

## LANGUAGES KNOWN

- Hindi(Medium proficiency)
- Tamil(Native proficiency)
- Telugu(Native proficiency)
- German(Elementary Proficiency)
- English(Native proficiency)

## REFERENCES:

**Name:** Thirupathiraj.K

**Email:**

[thirupathiraj.k@lakshmilife.com](mailto:thirupathiraj.k@lakshmilife.com)

**Role** : HOD-(R&D)

**Contact.No:** +918925255509

## CERTIFICATIONS:

**MACHINE LEARNING :**

**udemy-**

[certificate.s3.amazonaws.com](https://www.udacity.com/certificate/s3.amazonaws.com/pdf/UC-14416cb6-1af3-4001-8a8d-532ec7d8baa3.pdf)

[/pdf/UC-14416cb6-1af3-4001-](https://www.udacity.com/pdf/UC-14416cb6-1af3-4001-8a8d-532ec7d8baa3.pdf)

[8a8d-532ec7d8baa3.pdf](https://www.udacity.com/pdf/UC-14416cb6-1af3-4001-8a8d-532ec7d8baa3.pdf)

**DEEP LEARNING:**

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[/pdf/UC-b61e2282-5aa0-](https://www.udacity.com/pdf/UC-b61e2282-5aa0-4420-89b8-e0f8cc3275b9.pdf)

[4420-89b8-e0f8cc3275b9.pdf](https://www.udacity.com/pdf/UC-b61e2282-5aa0-4420-89b8-e0f8cc3275b9.pdf)

**PYTHON:**

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[certificate.s3.amazonaws.com/](https://www.udacity.com/certificate/s3.amazonaws.com/pdf/UC-cf241f1f-1b16-49a6-915e-45ca3f4d9407.pdf)

[pdf/UC-cf241f1f-1b16-49a6-](https://www.udacity.com/pdf/UC-cf241f1f-1b16-49a6-915e-45ca3f4d9407.pdf)

[915e-45ca3f4d9407.pdf](https://www.udacity.com/pdf/UC-cf241f1f-1b16-49a6-915e-45ca3f4d9407.pdf)

**INDEPENDENT RESEARCH PROJECTS:**

- Generative Design in Plastics
- Topology Optimization

**Project Tools** : Microsoft Word, Microsoft Powerpoint.

**KGISL Institute of Technology [Coursework: Minor thesis]**

**April,2017:**

**Project Title: Design and Fabrication of Composite Material**

**Description:** We studied the prospects of developing a new material using natural fiber with epoxy resin to develop a new material and conducted various stress tests

**KGISL Institute of Technology**

**March,2018:**

**Project Title:** Rally car design challenge

**Description:** We designed and fabricated an Rally car from ground-up to compete in the sands of Thar Desert on All India Level.

Our design endured extreme conditions and ended up as Number 1 in Racing and Endurance Rounds.

**Roles Played:** Brake Sub-System Design Engineer and Fabricator.

**Technical Tools Used:** Solidworks, Ansys Mechanical, Ansys Workbench and AutoCad

**Project Tools Used:** Microsoft Word, Microsoft Excel and Microsoft Presentation

Have an Glimpse of our journey

<https://youtu.be/nMD7Wn3PzeOY>