



ADARSH SASIKUMAR

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JOB OBJECTIVE

Certified mechanical engineer with 5years experience in Designing and Development of varies mechanical parts, looking to gain a position in an organization that seeks individuals with the ability to improve production processes for maximum effectiveness.

PROFESSIONAL EXPERIENCE

MECHANICAL DESIGN ENGINEER

AMARA RAJA ADVANCED CELL TECHNOLOGIES

07/2022 – Present (1.5year)

- ❖ Mechanical battery pack design (Two-wheeler, Three-wheeler, and Telecom) and right sizing in order to fulfil the given driving range targets and deliver power.
- ❖ Good Understanding of mechanical, thermal as well as electrical engineering principals as well as an experience of end-to-end new product development from a product concept ideation stage to launching the same to market.
- ❖ Experience of battery pack design with different cell chemistries (NMC, LFP) and Types (Cylindrical/Pouch/Prismatic).
- ❖ Preparation and release of all 3D data, drawings, specifications. Expertise in design for the following production processes: injection moulding (plastics), extrusion (plastic or aluminium), metal stamping, die castings, sheet metal and weldments.
- ❖ Experience in vendor qualification and selection process.
- ❖ Extensively involved in pre-project activities like preparation of BOM, Proposals, technical discussions with customers.
- ❖ Involving in ARAI testing and validation.
- ❖ Involving Discussion with Customer for Proto battery pack Testing and Validation.
- ❖ Oversee testing procedures to ensure that batteries meet safety standards, this involves conducting various tests, including abuse testing (such as thermal runaway tests), and environmental testing (e.g., temperature and humidity testing).
- ❖ Collaborate with manufacturing teams to scale up production and address any issues related to manufacturing processes, materials sourcing, and quality control. You may also provide guidance on process optimization and automation.
- ❖ Oversee the fabrication and testing of prototype modules, or packs to validate the design concept and performance predictions. This may involve collaborating with fabrication technicians, sourcing materials, and coordinating testing procedures.
- ❖ Conduct thorough performance testing on prototype batteries to assess key metrics such as capacity, voltage, efficiency, charge/discharge rates, temperature stability, and cycle life.

PERMANENT ADDRESS

S/O Sasikumar VK,

Thiruvathira(Ho)

Avikkal , Vadakara 3

Kozhikode,kerala.

Pin 673103

SOFTWARES KNOWN

- Artcam
- Solid works
- AutoCAD
- MS Office

KEY SKILLS

- Excellent technical skills, including computer-aid design experience.
- Knowledgeable in mechanical equipment, such as CNC Machine, Lathe, Drill Machine etc.
- Presenting designs to managers and clients.
- Undertaking research.
- GD&T

KEY STRENGTHS

- Optimistic Person
- Can adapt to new environment
- Team worker
- Problem solver
- Creativity
- Communication awareness
- Ability to handle pressure

AREAS OF INTEREST

- EV battery Development.
- Standby Battery Development.
- Industrial Automation
- Automobile systems
- Designing new models

PERSONAL PROFILE

Date of Birth : 30/05/1996

Gender : Male

Language : English,
Malayalam, Hindi,

Tamil, Kannada

Nationality : Indian

HOBBIES

Listening To Music, Playing Cricket, Sudoku.

- ❖ Work to optimize the cost-effectiveness of the battery design by identifying opportunities to reduce material costs, improve manufacturing efficiency, and increase energy density without compromising performance or safety.
- ❖ Stay informed about advancements in battery technology, manufacturing processes, and industry trends through literature review, professional development activities, and collaboration with colleagues. This actively seek opportunities to innovate and improve upon existing battery designs to stay competitive in the market.

MAJOR PROJECT ACCOMPLISHED

LIQUID IMMERSION COOLING BATTERY PACK

- ❖ Collaborated with European Technology and developed Immersion cooled battery pack for Two-wheeler.

TWO-WHEELER BATTERY PACK

- ❖ Design and developed 2KWh, 2.5KWh and 3KWh battery pack using cylindrical cells (NMC, LMFP and LFP Cells).

THREE-WHEELER BATTERY PACK

- ❖ Design and developed 7.5KWh, 8KWh ,8.5KWh AND 10KWh battery pack using Prismatic Cells (NMC and LFP).

MECHANICAL TEAM LEADER NCN TECHNOLOGIES

01/2019 – 02/2022 (3 Years)

- ❖ In charge of guiding, monitoring, and leading an entire group.
- ❖ Ensure the correct implementation and execution of the existing processes and work flows in these areas.
- ❖ Define the different activities within your team, according to the priorities and competences of each one in your team.
- ❖ Design and Development of Jigs and Fixture for automation test system.
- ❖ Co-ordinating with R&D Team for Validating Test Case.

Contact : Amith – 9986052757

MAJOR PROJECT ACCOMPLISHED

EATON THERMAL CHAMBER.

- ❖ Thermal chamber Designed, developed and Tested
- ❖ Software Tools: AUTOCAD, Solidworks And Art Cam.

JIO 5G

- ❖ Test fixture Designed and manufacturing.
- ❖ Software Tools: AUTOCAD, Solidworks And Art Cam.

GRADUATE ENGINEER TRAINEE

Sunil Hi–Tech Engineers Ltd.

07/2017 – 08/2018 (1 Year)

- ❖ Provide input into the scheduling of projects to meet the client's required deadline and it has ensured and manpower resources are being used efficiently.
- ❖ Conduct safety observations and conversations to help achieve a zero-incident culture

Contact : BK Singh – 731994226

ACADEMIC RECORD

DEGREE	NAME OF THE INSTITUTION	YEAR OF PASSING	%
B.E in (Mechanical Engineering)	Dr. Sri Sri Sri Shivakumara Mahaswamiji College of Engineering	2017	70 %
Higher Secondary	GHSS Vadakara	2013	84%
Secondary School	BEM high School.	2011	87%

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and brief.

Yours truly,
Adarsh sasikumar