

# P V PAVAN KALYAN

Technical Product Owner - Electronic throttle body: H2E and CNG applications

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## PROFILE SUMMARY

Product enthusiast, a Problem solver and above all, the go-to-guy for critical Projects, Programs and Platforms.

Having **4.7 years+** of technical experience in:

### Skills:

New Product Development, Advanced Product Quality Planning (APQP), Product Requirement Document (PRD), Project Management, Retro-fit Design, Product Benchmarking, VA-VE, Localization, Root cause analysis (8D), DFMEA, DRBFM (L2) Reduction of Part Price (RPP), Product Lifecycle Management (Bosch PEP), Cross Functional team collaboration, Prototyping, and Driving important KPI (On Cost, On Spec, On Risk, On Time)

**Capabilities:** *Recognized for 3-consecutive quarters* as the best performance for demonstrating Agile Thinking, Cross Collaboration, Problem Solving and Continuous Learning

## EDUCATION

### Vellore Institute of Technology, Tamil Nadu, India

Bachelor of Technology in Mechanical Engineering. Cumulative GPA: **8.71/10**

### Narayana Jr. College, Andhra Pradesh, India

Board of Intermediate Education, MPC, Percentage: **91.10%**

### Sri Chaitanya Techno School, Andhra Pradesh, India

Board of Secondary Education, CGPA: **8.5/10**

## PROFESSIONAL EXPERIENCE

### Senior Engineer - Product Development, Bosch Ltd

JUL 2022 – Present

#### Technical Product owner - Electronic throttle body: H2E and CNG applications

- Driven the technical maturity of *Throttle Valve Platform Project* for H2E application within 18 months
- Spearheaded *5+ customer acquisition, customer projects until PPAP, APQP as SPOC*
- Saved *46.8 mio INR* validation cost by establishing Hydrogen test infrastructure within 2.5 mio INR
- Reduced *2.7 mio INR* recursion cost at assembly manufacturing station using 8D Solving methods
- Moderated *65 million* INR RPP projects by localization, optimization of child part design and variant reduction
- Accelerated potential entry to H2 ICE market by releasing the product with minimum requirement (sample) to OEM's which assisted for continuous development along OEM's timeline and SOP
- Supported product management team with *Product release, USP definition, Competitor benchmarking*
- *Moderated for driving innovation in business unit* and supported managers with multi-cultural collaboration and co-ordination (Bosch Germany and Czech Republic) in Bosch global forums
- *Supervised trainees* for day-to-day tasks and training product know-how
- Supported project management in Budget planning, Change management, Risk assessment & resource planning
- Supported series production line with problem solving, product release, engineering change management

### Mechanical Project Engineer, GTRE- DRDO, Bengaluru

FEB 2021 – June 2022

### Graduate Apprentice, GTRE- DRDO, Bengaluru

OCT 2019 - FEB 2021

- *Executed 3 Turnkey projects* of Aero Gas turbine Line Replaceable Units (LRU's) with Production Partners (DcPP)
- Established Project Management Plan along with group of Scientists for release of LRU's

- *Drafted new Technical Specification* with Test procedures, test rig specification, test bench validation, Instrumentation, BOM, Schematics, Inspection procedure & acceptance criteria.
- Improved Performance of Bellow Design of compressor test rig by *15%* - Stiffness analysis and FEA
- Reduced vibration in compressor test rig by *12%* – Meshing (Hypermesh), Modal and Harmonic Analysis (ANSYS)
- Streamlined the workflow to *reduce manual intervention* by incorporating scripts & Macros in MS Excel.
- 3-D modelled, Drafted and PLM (Teamcenter) of Lube oil pump, compressor blades, casings, Bearing housing, HP and LP Rotor disk and other critical components

## ACADEMIC PROJECTS & PUBLICATIONS

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- **"Study on influence of machinability characteristics in machining of Nimonic 90a alloy using copper oxide Nanofluid in MQL mode"** Volume 9, Issue 3, March 2018. (Published in International Journal of Mechanical Engineering and Technology (IJMET))
- **"Predictive Modelling of Laser Assisted Hybrid Machining Parameters of Inconel 718 Alloy using Statistical and Artificial Neural Network."** Volume 5, Issue 5, part 2, 2018. (Published in Materials Today)
- **"Effect of laser process parameters on laser assisted Machining of Inconel 718: Statistical – Regression Analysis."** Volume 5, Issue 5, part 2, 2018. (Published in Materials Today)

## CAREER DEVELOPMENT

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- Pursuing '*IBM Data Science Professional Certificate*' in Coursera for applied learning in Data Science - End'Aug2024