

Mr. K. M. Vimal

INDIAN

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ENGINEER_STAFF

July 2014-PRESENT

**Flowserve India Controls Pvt. Ltd.,India.
(FLOWSERVE CORPORTAION)**

- Responsibility to design and develop a new product from initial concept design stage to final release of the product.
- Design with International Standards:
 - Calculation with ASME BPVC VIII-1, API & ISO standards.
 - FEA using ANSYS based upon ASME BPVC VIII-2.
- Concept design in 2D (Autocad)
- Detail design in 3D (Autodesk Inventor, SolidWorks) with the files are accessed with Windchill platform.
- Prepare Bill of Materials (BOM) in SAP.
- Preparation of Design guidelines, Material Specificaion, and supporting documents of Product Engineering.
- To complete designs as committed not deviating more than 10% by prioritizing the works depend upon the deadlines.
- Supporting for Sales & Manufacturing of the valves to complete the request within a day or depending upon the complexity of the request.
- Selection of Gear units/Actuators for Valves w.r.to the customer requirement.
- Product Management, Brainstorming, FTA, FMEA, RCA and implementing Corrective/Preventive actions.
- Preparing & Maintaining the documents for Product Audit like API 6D, PED.

PRODUCTS DEVELOPED

- Compact Expanding Gate Valve (In Collaoration with FLOWSERVE, Italy)
- Through Conduit Slab Gate Valve (In Collaoration with FLOWSERVE, Italy)
- Through Conduit Double Expnading Gate Valve (In Collaoration with FLOWSERVE, Italy)

- McCANNA PTA Trunnion Mounted Ball Valve (In Collaboration with FLOWSERVE, US)

COMPUER SKILLS

- AutoCAD
- Solidworks, CATIA, & Autodesk Inventor
- ANSYS & Autodesk Simulation Multiphysics
- Matlab
- Windchill for Drawing control
- SAP for creating Document code, Material Code, Bill Of Material, etc

2012-2014 MASTER OF DESIGN IN MECHANICAL SYSTEMS

Indian Institute Of Information Technology Design and Manufacturing (IIITDM), Chennai, India (*mentored by IIT Madras*)

- 9.0 CGPA (10 Point Scale)
- GATE-2012 Qualified & HTTA Scholarship of 8000 INR per month

ACADEMIC PRODUCT DEVELOPMENT

“UNIVERSAL STRETCHER” *To transfer the immobilized patients, Easy transferring of patients from bed to wheelchair, Using the same stretcher as wheelchair, Blood circulation massager, Inbuilt portable exercise kit, High efficient comfort for patient.*

“FOOD PRESERVER” *Conceptualization from CELLAR(A room or enclosed space used for storage usually beneath the ground or under a building); To overcome the loss of nutrients in food items while using refrigerator; A water cooled chamber is used to keep the food COOL and DRY with a help of vacuum pump.*

“PIEZO-ELECTRIC MODULE FOR MOBILE CHARGING” *Product developed with the consideration of “Design for Quality and Reliability”, applying all the concepts from Conceptualization stage (screening one from 5 ideas), FMEA, FTA, Design for X (DFMA) and Life cycle cost.*

2007-2011 BACHELOR OF ENGINEERING IN PRODUCTION

Anna University, Madras Institute of Technology campus, Chennai, India

- 7.56 CGPA (10 Point scale)

COMPETITION AND PRIZES

Design won in a National Level Competition conducted by CVRDE-DRDO, Ministry of Defence, Govt of India (Driving Innovation: Student Robot Competition 2010) In The Topic “Military Racing Challenge – Autonomous Ground Vehicle For Low Intensity Conflict”

- **GRANT Stage-I** received a prize amount of 1,00,000 INR in July 2010.
- **PRIZE Stage-II** in Final Round (Prototype) received a prize amount 60,000 INR in CVRDE DRDO, Chennai on Oct'30th 2010.

HONOURS AND AWARDS

Honoured with “Award Of Achievement For Outstanding Performance In Ride Quality” by Adm. James D. McArthur Jr, *Vice President, LOCKHEED MARTIN Center For Innovation In Suffolk, Virginia, USA, On 17th June'2011.*

2005-2007 HIGHER SECONDARY (12th)

Bishop Heber Higher Secondary School, Trichy, India

- 100% of marks in Mathematics
- 96.7% of marks in Physics, Chemistry, Mathematics
- 90.5% of marks in overall subjects

2004-2005 HIGH SCHOOL (10th)

BHEL Matriculation Higher Secondary School, Trichy, India

- 80% of marks

PUBLICATIONS

- [1] **Vimal K M**, Santhosh S, Shahul Hamid Khan B. “A multi-objective optimization using Genetic Algorithm for green supply chain Management” in *Proceedings of 2nd International Conference On Advances in Industrial Engineering Applications 2014" (ICAIEA2014) on 6-8th Jan 2014, CEG campus, Anna University, Chennai, India (2014) Pg. no.138-144.*
- [2] Saikumar K, ***Vimal K M**, Santhosh S, Shahul Hamid Khan B. “Simulated Annealing for a Multi-Objective Green Supply Chain Network of a Manufacturing Industry”, in *Proceedings of the International Conference on Science and Innovative Engineering 2014*, by *Organisation of Science and Innovative Engineering & Technology (OSIET)*, 5th & 6th April 2014, Chennai, India. P-366, ISBN 978-81-904760-5-8. (*Corresponding Author)
- [3] **Vimal K M**, Santhosh S, Shahul Hamid Khan B. “A Gradual-Priority Weighting Genetic Algorithm for a Multi-Stage Multi-Objective Green Supply Chain Network of a Manufacturing Industry” in *International Conference On Management Perspectives 2014* Organized by *Amity Business School, Amity University Rajasthan, Jaipur, India on April 24th & 25th 2014*. P 318-331, ISBN 978-81-929057-1-6.

PERSONAL PROFILE:

Full Name: Kilangadu Mariappan Vimal

Date Of Birth: 4th June 1989

Place Of Birth: Uranipuram, Thanjavur, India.

Gender: Male

Age: 28 Yrs

Religion: Hindu

Marital Status: Single

Height: 170 Cm

Weight: 70kg

Permanent Address: 24/26 Pillaiyar Kovil Street, Indra Nagar, Thiruverumbur, Trichy, Tamilnadu, India. PIN – 620013.

PASSPORT DETAILS:

Passport Number: J0280654

Date Of Issue: 01/04/2011

Date Of Expiry: 31/03/2021

Place Of Issue: Trichy

DECLARATION

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief

PLACE : Chennai, India

Yours Sincerely,

DATE : 9th July 2018

K. M. VIMAL