Name	M.Sivagurunathan	
Designation	Senior Product design Engineer	
Mail	sivamuthaiyan@gmail.com	
Date of Birth	29-05-1988	
Contact	+91-8012367675	



Profile summary

- Over 11+ years of experience in Industrial pumps-centrifugal & PD pump & skid packages, Water treatment plant, Loading arms (Piping) & Coordinate measuring machine.
- Calculation, Engineering, design and drawing of technical installations and plans.
- CAD software design concepts, drafts, sketches, specs, FEA analysis, P&ID.
- Knowledge of design, engineering, new product development, reverse engineering & prototypes.
- Familiar with Industrial mechanical standards and codes like ASME 31.3/Y14.5,API 610/682& DIN.
- Project management & Lead a team of engineers technically and/or hierarchically
- Awarded for 3D printed pump house prototype in Corporate Family day, Best community Award.

Skills

Drawing software	AutoCAD, Autodesk Inventor, SolidWorks, CATIA V5 / PLM / Adept / Team center	
Method	Design, Engineering, CAD, NPD, Reverse Engineering, Prototypes, Lean-Single piece flow	
Process	Design & development, Engineering, site fabrication & installation	
Standards	API: 610, 682, ASME 31.3, DIN , ASME GD &T Y14.5	

Education

Education	Specialization	University/College	City	Year
Bachelor	Mechanical engineering	Anna university /	chennai	2010
		Panimalar Engineering college		

Certification

Certificate	Specialization	City	Year
Awarded by	Design and development of 3D printed Demo Fire Pump House	Chennai	2020
Ruhrpumpen,chennai	(For Global Exhibitions)		
IIT,Madras	Product Design and optimization	Chennai	2012
NIOT,chennai	Finite element crack growth analysis	Chennai	2010

Employer details

Organization	Role	Level of responsibility	Tenure
Ruhrpumpen India Private Ltd,chennai	Senior Product design engineer	Team management and individual contribution	Dec 18 – till date
Sri Bhuvaneshwari Engineering services,chennai	Senior design engineer	Team management and individual contribution	Ju17 – Nov 18
Tata consultancy services, siruseri, chennai	Systems engineer	Individual contributor	Aug 14 – Jun 17
Dover India Private Limited	Design engineer	Individual contributor	Jun 11 – Jun 14

Project details

Company	Ruhrpumpen India Private Ltd,chennai
Project title	Design and Engineering
Customer	Ruhrpumpen – Witten Engineering CFF Team
Duration	Dec 18 – Till date
Technologies used	AutoCAD, Inventor – Part / Assembly modeling, Surface, weldment, sheetmetal, drawings
Domain	Industrial Centrifugal Pumps, General Arrangement, Baseplate & skids.
Roles	Senior Product design Engineer – Reporting to Engg. Manager, witten, Germany.
Responsibilities	 Lead Design and development of Pump skid packages-General arrangement, Baseplate,Barepump,Casing ,pump components & cross sectional drawings. Analyse and execute the project-mechanical design,Equipments,Instruments,Pressure vessels,API manufacturing specifications,Regulatory requirements.(API 610,API 682) Prepare detail design calculation,sizing,validation,BOM,weight calculation. Interface withPiping,Plant Layout,Process,Civil,Structural,Electrical &Instrumentation Creation of Pump 3D models-Volute casings,Impeller,Bearing housing,shaft,other pump components / drawings. Product enhancements, new product development, and live order development Strong ability to define and detail mechanical designs from concept to finished product, develop models and assemblies to applicable regulatory standards, including validation and verification procedures. Experience in 3D Modeling of Volute casings (OH1,OH2 & BB1) Implement & support Lifecycle Engineering Changes Developed pump house prototype project using ABS filament material for international exhibitions. Coordinated and liaised between production, manufacturing and purchasing personnel with all necessary documents Implement standard procedures for design of pump casing and components Prepare 3D modeling & drawings -Part / Assembly / Tubing / Routing / Surface Standardization of fittings & models Generate, eview & validate general arrangement drawing & skid packages. Trained in Lean techniques for eliminating waste & improving efficiency. Generate and validate the drawings for baseplate, centrifugal pumps,Motor & Impellers, Seal plans / Volute casing,casing cover, bearing housing & bearing cover & cable trays. Maintain Project deliverables with good quality,on time delivery,minimum Product & project cost Competent with 3D,2D p

Company	Sri Bhuvaneshwari Engineering services,chennai	
Project title Engineering & fabrication		
Customer Greensol Power Systems Pvt Ltd, Amin Construction		
Duration Jun 17 – Nov 18		
Technologies used	Solid Works	
Domain	Pumps & skids	
Description Designed pump skids and developed detail engineering drawings		
Roles	Senior design engineer	
Responsibilities	 Drafted and detailed all drawings for tender, fabrication, assembly and erection/installation Performed necessary drawing conversions like pdf files, tiff, jpeg and dwg file Prepared plant layout drawings to help sales design systems. Testing of parts to assure certification testing - static pressure, vacuum, leak down Quality check & review Preparation of technical specification of all the mechanical components. 	

C	ompany	Tata consultancy services, siruseri, chennai
Pı	oject title	Design & Engineering
Customer GE Water technologies		
Duration Aug 14 – Jun 17		Aug 14 – Jun 17
Te	echnologies used	SolidWorks, AutoCAD 2D, 3D, EPDM, SAP
D	omain	water treatment
	Description	Design and detailed engineering of water and waste water treatment plants, ECN
	Roles	Design engineer
Responsibilities		Designed the water installation of Pro-series RO skids, Electrodialysis reversal, mobile flow trailer WTP • Standardization of Components, Equipment, pipes/fittings • Generate & validate the 3D models & drawings • BOM preparation • Prepared drawings of all mechanical components, valves-equipment data sheets • Make Engineering change note from site PR
		Quality check and review

Company	Dover India Private Limited	
Project title	Design & Engineering	
Customer	(OPW) - Chemtrols, Indian Oil Corporation Limited, IOT	
Duration	Oct 13 - Jun 14	
Domain	Oil & gas	
Description Design of OPW Top, SS Top Loading Arms and POL Bottom Loading Arms as per Corporation Limited Tender		
Responsibilities • Created manufacturing drawings for piping, bracket, fittings, pipe supports • Generated 3D Model and automated detailed drawings for loading arms with I using SolidWorks, AutoCAD • Involved in product and support design of loading arms • Prepare & Standardized the BOM for POL loading arms specifications, data she • Feasibility study of the product and alternate method of designing the product • Improved the design, performance and efficiency of existing products • Equipment test and hydro test		

C	ompany	Dover India Private Limited
P	roject title	Design & Development
Customer Mouvex, France		Mouvex, France
D	uration	Jun 11 – Sep 13
D	omain	Industrial Pumps
	Description	The project involves updating the design and drawing for industrial pumps, ECN
	Responsibilities	 Creation of 3D Model and drawings of Pump & components BOM preparation Validate the model and drawings to verify completeness, clarity, and accuracy Engineering changes 2D to 3D conversion from handmade drawings, PDF,Tiff & JPEG files Exploded and configured assembly drawings

Languages

Language	Read	Write	Speak
English	Fluent	Fluent	Fluent
Tamil	Native	Native	Native

Personal interests

Hobbies	ardening,Musical keyboard,Drums & Rhytham pad	
Marital status / Children	Married / Daughter	
Memberships	Actively participating in Seminars & Cultural Events	

Certifications:







