**CURRICULUM VITAE**

**SHASHANKA S**

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**OBJECTIVE:**

Seeking challenging assignments Design, Simulation (CFD/FEA) & Detail Engineering. To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

**PROFILE SUMMERY**

1) 2 Years Experienced in Designing, Simulation (CFD/FEA), Detail Engineering and Assembly.

2)  Good Understanding of Design and Development of Sheet metal, Cockpit Display, Control display units, Rugged Panel PC, Rugged KVM, Rugged & Commercial VME Chassis, Onboard units, Launcher Interface unit, Simulator PC, Cockpit Controls and inertial navigation system enclosure, Air Bourne Products, Custom Design and Development. (Commercial & Industrial Units).

3) Strong abilities in creating/ reading/ interpreting engineering drawings with proficiency in designing and developing new products in conformance to pre-defined technical specification.

4) Knowledge of developing & implementing the Quality systems like VALUE STREAM MAPPING, KAIZEN etc. to meet the quality standers.

5) Completed GERMAN A1 course in Goethe institute (Maxmuller Bhavan) Indira nagar, Bangalore.

**ROLE OF WORK**

 After my graduation (2015) I started to work in an esteemed organization called Datasol (B) India PVT LTD. I am appointed as a Design & Simulation engineer in mechanical design team, August 2015 to till up to date. They trained me very well for 3 months. Basically I am working here in pure technical Research and Development Department. ,**"DATASOL"** Products and integration services have over the years heralded the use of latest technologies across a wide spectrum of domains like Defence, Aerospace, Automotive and Industrial Automation.

As a mechanical Design & Simulation Engineer I have to do design like electronic chassis, Air Borne Products, VPXI, Cpci Chassis, Control Display Units for Air crafts, Darin III simulator for Missile Systems, Rugged Laptop and Panel PC for Ships mounting and so on. My work flow is shown in below,

Documentation>>Design>>Customer Approval>>Simulation>>Fabrication>>Quality Inspection>>Check Assembly>>Final Assembly>>Quality Check>>Dispatch.

Datasol is a small organization so I got the opportunity to learn and explore my innovative ideas. Apart from that I Implemented Some quality tools like Value Stream Mapping, Kaizen, Fish Bone Diagram, Why Why tool and so on.

Basically I have to do the Documentation Process by collecting the data from customers. After that I have to design the Products as per customer requirement in Solid works, Pro-E software. AutoCad is used only for Detailing of the design for fabrication process. After the Design and Customer Approval I have to do Simulation for the development Prototype Product. Simulation Includes Conduction Cooled, Convection Cooled, Sinusoidal vibration, random Vibration, I already design the products that meet the spec. Different G vibration, Different altitude, EMI/EMC, Shock, Humidity, Bump Test, Thermal, Drip and Drop test and so on. For Simulation Solid works Software is used for both CFD and FEA Analysis. R&D and problem solving is the main agenda of my role of work.

After the Fabrication I have to do Inspection and Check assemble. After that I have to send it for Painting or powder coating by giving Masking Drawings. After that Laser Engraving or Screen printing is carried out for naming the parts.

Here I have learning wide range of knowledge like Wiring, Mechanical Assembly and Fabrication of Components in CNC machines.

Sincerely,

SHASHANKA S

MECHANICAL DESIGN ENGINEER.

**CORE COMPETENCEIES**

**Project Planning & Management**

* **Establishing time span of project execution as per client specification.**
* **Listing Down the resource needs for projects, after considering the budgetary parameters set.**

**PROFESSIONAL SKILLS:**

**Design** **:** Solid works, Autocad, Coral draw

**Drafting** **:** AutoCAD.

**Simulation :** Solid works

Process involved by me,

1. Documentation – I have to prepare the document by seeing the pre-defined spec.
2. Design- I have to Design the Product prototype
3. Customer Approval- I have to take the customer approval by mails or moving towards the customer place.
4. Simulation- I have to do the simulation for each respective project designed by me and others design products.
5. Fabrication- Outsourced. (Milling and Sheet metal).
6. Quality Inspection- After the fabrication I have to inspect the components and need to prepare the quality report for each component.
7. Check assembly and final assembly- Due to the less man power in our organization I have to do the assembly work also.
8. Dispatch- For dispatching the unit I have to prepare the drawing for dispatch box and I have to pack every unit.

Datasol is a small organization, so I learned so many practical skills, techniques and designs.

**Project Completed:**

1. Rugged KVM- Designed enclosure for 17 and 19” display with tracker ball. (BEL, HYD)
2. Rugged Panel PC- Designed enclosure of 19” display with tracker ball and selection of shock mount. (BEL, BNG)
3. Control Display Unit- Designed enclosure to meet the EMI/EMC Spec. (DRDO, BEL)
4. Launcher Interface Unit- Designed Conduction cooled chassis to meet the thermal Spec. (DRDO, HYD)
5. Simulator PC- Designed Convection Cooled Chassis to meet the thermal spec. (DRDO, HYD)
6. Rugged and Commercial VME chassis- Designed Milling and sheet metal enclosure to meet the Convection cooled spec.

**Etc……**

Rugged laptop for (BEL, Bangalore)- Designing of Laptop Enclosure, Concept drawing, Detail drawing, Designed as per technical specification like HUMIDITY, THERMAL, VIBRATION etc. Prepared Bill of Material, Direct Contact and meeting with the customer.

Commercial & Rugged VME chassis (BEL, Ghaziabad)- Designing of Enclosure of both Rugged and commercial version. Prepared Bill of Material, Selection of Shock mount by calculating the frequencies (Hz), Simulation run in Solid works (CFD) thermal analysis. Screen Printing Details. Replaced name plate made of metal plate with polycarbonate.

1U chassis & 2U chassis for HAL and DRDL- Designing of sheet metal enclosure and development. AIR cooled and convection cooled.

Gateway CPU (ECIL, HYD) – Design and Good vibration resist chassis. Preparation of BOM, providing some rivets and reduce the screws up to 60%.

Control Display Unit (CABS) – Design and detail development, designing of polycarbonate, easy to service the chassis by removing 4 screws. Rugged and anti-vibration system.

Signal Interference Unit (DRDO, HYD) – Designing and detail drawing, system is design to resist vibration along X, Y & Z axis with specified Hz.

Some small projects- Getach Laptop connector box, Laptop fixing in the RACK by using Slides, Providing Back door for imported chassis of ADE, Bng. Etc..

I completed the projects of below customers,

BEL (NCS, MR, MS units projects) – Bangalore

BEL (NAVAL Systems)- Hyderabad

HAL (MSRD unit)- Bangalore

BEL- Ghaziabad

ADA- Bangalore

DRDO- Hyderabad

ECIL, Hyderabad

**Current Company Details-**

**Company Name – M/s Datasol (B) India Pvt Ltd.**

**Designation – Design & Simulation Engineer.**

**It established in 1997,"DATASOL" Products and integration services have over the years heralded the use of latest technologies across a wide spectrum of domains like Defence, Aerospace, Automotive and Industrial Automation. Over 250+ man-years of knowledge, Innovation & Dedication has transformed "DATASOL" into a par excellence in system design, development & manufacturing house. Datasol has highly intellectual & best of the minds working towards a single endeavor rolling out world-class products with cutting edge technologies for Land, Air & Marine platforms. Team Datatsol is dedicated to capture the customer's needs from "Concept to Delivery" of both Products and Projects to suit to any kinds of applications.**

**EDUCATIONAL QUALIFICATION:**

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|  | **DEGREE & STR** | | |  | **Name of the inst** | | | **Year of passin** | | |  |  | **University** | | **Aggregate perce** | | |  |
|  | **EAM** | |  |  |  | **itute** | | **g** | |  |  |  |  |  |  | **ntage** | |  |
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|  | B.E.(ME) | |  |  | PESITM, SHIM | | | 2015 | |  |  | VTU, Belgaum | | |  | 68% | |  |
|  |  |  |  |  |  | OGA | |  |  |  |  |  | Karnataka | |  |  |  |  |
|  | | | |  | | | |  |  |  |  |  |  |  |  |  |  |  |
| **Percentage in Each Semester:** | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |
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|  | **I** |  | **II** | |  | **III** |  | **IV** |  | **V** | |  | **VI** |  | **VII** |  | **VIII** | |
|  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 65.3% |  | 65.2% | | | 69.4% |  | 60.66% |  | 64% | |  | 62.4% |  | 70% |  | 77.73% |  |
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| **Course** | **University** | **Batch** | **Percentage (%)** |
|  |  |  |  |
| Pre-University | Karnataka State Board | 2011 | 62.4 |
|  |  |  |  |
| 10th Standard | Karnataka State Board | 2009 | 82.4 |
|  |  |  |  |

**Project Accomplished in College:**

**Name** **:** Automation of Starter Motors Pinion Inspection Process

**Duration** **:** 4 months

**Organization** **:** MICOBOSCH,Bangalore

**Team Size** **:** 4

**Description** **:** The main Objective of this Project is to automate the starter motors pi-

nion profile inspection process which is previously carried out manually. In manual method consumption of time is more and inspection quality is unreliable. Hence to overcome from this reliability and time consumption method we adopted a method for pinion inspection process which is highly accurate in checking the pinion profile. To automate inspection we introduced an intelligent process which included a camera and electronic circuits. This captures the pinion profile and display the output in terms of OK/NOK. The automation of this project reduce d the total lead time of the assembly line. Inspection took 125 hours to check 500 Over Running Clutch (ORC) but we reduce it for 41 min to check 500 ORC in a single batch. Finally 100 % result obtained in this method.

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| **PERSONAL PROFILE:** |  |  |
| **Name** | **:** | **Shashank S** |
| **Date of Birth** | **:** | 18th of October, 1993 |
| **Qualification** | **:** | B.E- Mechanical Engineering. |
| **Languages Known** | **:** | English, Deutsch and Kannada. |
| **Hobbies** | **:** | Listening Music, Playing Chess, Kabaddi, vedas. |
| **Address** | **:** | S/O H.K. Sheshadri |
|  |  | No. 35 3rd cross |
|  |  | Jnaneshwari layout |
|  |  | Nanjappa circle, vidyaranyapura |
|  |  | Bangalore - 560097 |
|  |  | Karnataka. |

**ACHIEVEMENTS:**

1. Our project was awarded as the “Best Project” of the year in PESITM, Shivamogga.
2. Awarded 3rd prize in National level Technical paper presentation in REC college, Gadag
3. Participated in National level Technical paper presentation in GMIT, Davanagere and JNNCE, Shimoga
4. Participated in Robotics held at JNNCE, Shimoga ”ROBOGENESIS” Recognized by Science Park, Korea

**DECLARATION:**

I declare that the information given above is true to the best of my knowledge.

[Shashanka S]

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