MURALIDHARAN M

📍 Bengaluru, India 560090

📞 9740968612

✉ muralidharan2305@gmail.com

PROFESSIONAL SUMMARY

- Highly-motivated Application and Design Engineer in 1D Modeling and Simulation experienced in delivering quality results across demanding projects.
- Applies excellent systems understanding and engineering knowledge to resolve complex technical issues. Evolves thinking and practices to improve department abilities and opportunities.
- Accomplished Engineer with proven skills across design, implementation and delivery lifecycles.
- Communicates complex technical concepts well for clear understanding across varied audiences. Resilient and adaptable to achieve results in fast-paced environments.

EXPERIENCE

APPLICATION AND DESIGN SUPPORT ENGINEER, 01/2022 - Current
TRIDENT INFOSOL PVT LTD, Bengaluru , INDIA

- Working on Model Based System Engineering (MBSE) and Behaviour modeling.
- Modeling and Simulation of physics based 1D Fluid, Mechanical, Thermal, Electrical, Magnetic models using Modelica libraries .
- Installation, Support ,guide, provide solutions and training to the clients on Modelica based Dymola Software using Modeilca standard library and commercial libraries.
- Communicate with Sales team to handle both Pre Sales and Post Sales activity.
- Devoloped Proof of concepts (POCs) and case studies (using Dymola, Matlab-Simulink and Modelica Libraries) for the engineering problems and Demonstrated the solutions through online presentations.
- Developed test cases for the verification and validation of Multi-domain Dynamic models.
- Performed Import and Export of models using Functional Mock-up interface (FMI) Standard with Model Exchange and Co - Simulation formats to Third party applications for both Windows and Linux.

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CONTROL ENGINEER TRAINEE, 03/2021 - 07/2021
AMS INDIA PVT LTD, Bengaluru, India

- Updating Timing diagram using sequence sheet for Industrial robot's Grippers, Fixtures etc.,
- Updating Pneumatic and functional plan for Industrial Robot.
- Worked with 3D Printers, Mechanical and Electrical Assembly.

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INTERN, 07/2019 - 08/2019
SCHENCK PROCESS INDIA PVT LTD, Bengaluru, INDIA

- Learnt about types of machineries used like Plasma cutting machine, Hydraulic

press, Bending Machine, Welding machine, Drilling machine etc.
- Learnt about the types of products manufactured like BRU, Weigh feeder, Chain conveyor, Belt weigher etc.

CORE QUALIFICATIONS

- MODEL BASED SYSTEM ENGINEERING (MBSE)
- DYMOLA AND MODELICA
- MATLAB - SIMULINK
- MICROSOFT OFFICE
- AUTOCAD 2D AND 3D
- SOLID EDGE

EDUCATION

ACHARYA INSTITUTE OF TECHNOLOGY, *Bengaluru, KA, 2021*
Bachelor of engineering: Mechanical Engineering
VTU - 7.14 CGPA

ACHARYA POLYTECHNIC, *Bengaluru, KA, 2017*
Diploma in engineering: Mechatronics Engineering
BTE - 78.82%

LANGUAGES

- **ENGLISH** - READ, WRITE AND SPEAK
- **HINDI** - READ, WRITE AND SPEAK
- **KANNADA** - READ, WRITE AND SPEAK
- **TAMIL** - READ AND SPEAK
- **TELUGU** - SPEAK

CERTIFICATIONS

- CATIA - Brand Essentials - Level 1
- SIMULIA - Brand Essentials - Level 1
- SIMULIA - Electromagnetics Simulation - Articulate Certification
- SIMULIA - Fluid Simulation - Articulate Certification
- Transportation & Mobility Fundamentals - Level 1