

Manikantan Thyigarajan

Mob number - +918248491108

Linkedin -

<https://www.linkedin.com/in/manikantan-thiyagarajan>

Email - thiyagarajanmanikantan@gmail.com

PROFESSIONAL SUMMARY

A Mechanical engineer with 3 years of experience in a Multinational shipbuilding organisation, Rheinhold & Mahala GMBH. Currently pursuing a Master's Degree in Defence Technology with specialization in Aerospace Technology and pursuing Master's Thesis using Physics Based Modeling at Modelon. Seeking an opportunity in a team which can be benefited by my professional, problem-solving and team-oriented skills.

WORK EXPERIENCE

R&M Marine Engineering Services India Pvt. Ltd - Junior Engineer-Design

Chennai, India

06/2018 - 12/2021

- Designed various piping systems and HVAC systems for Passenger Cruise Vessels as per shipyard standards for Meyer Turku Oy Shipyard, Finland
- Prepared Piping Isometric and HVAC Duct Spool drawings for prefabricated production
- Created Detailed Assembly drawings for Piping, HVAC and Electrical outfitting for the various stages of the shipbuilding process
- Provided key insights and assisting Site Installation team
- Modelled insulation using Revit and Cadmatic Marine.

Bonfiglioli Transmissions(Pvt) Ltd - Inplant Trainee

Chennai, India

06/2016 - 07/2016

- Gained working knowledge of different gearbox system used in renewable energy sectors.
- Conducted a study on manufacturing and quality management process.
- Undertook time study on changeover time for different machineries.

ACADEMIC PROJECTS

Study of Mosaic Warfare

- Researched on the advantages of Mosaic Warfare over the conventional warfare strategies.
- Manipulated Potential and Anti Potential method to get the advantage of mosaic disruptive power force.
- Simulated Tank Battle Model on HP Sim software.

Study of Effectiveness of Gremlin and Rapid dragon technology

- Conducted the study of Dynetics Gremlin-X61 UAV with Multirole capabilities.
- Studied the advantages of Rapid Dragon Missiles over fighter aircraft launched missiles.
- Studied how the combination of the above technology can be a deadly combination to the enemy Air Defence by creating a war gaming scenario.

AREAS OF INTEREST

- Model Based Systems Engineering
- Aerospace Propulsion

TECHNICAL SKILLS

Plant Design and Management

Tools : Cadmatic Marine, MARS MRP, Revit, E-browser

Design tools : AutoCAD, FreeCad

Modeling tool :

Modelon Impact(modelica)

EDUCATION

Amrita Vishwa Vidyapeetham

Coimbatore, TN

Master of Technology: Defence Technology(Aerospace Technology)

Date of graduation - June 2023

CGPA - 9.2(current)

Master Thesis

Currently working on "Systems modelling and simulation of a commercial aircraft fuel system" using Modelica and Fuel System Library at Modelon Engineering Pvt Ltd, Trichy

Relevant Coursework

- Aerospace Propulsion
- Unmanned Aerial Vehicle Design
- Rockets & Missiles Fundamentals
- Guidance & Controls

SRM Institute of Science & Technology

Chennai, TN

Bachelor of Technology: Mechanical Engineering

Date of graduation - May 2018

GPA: 8.01

Major Project: Experimental Analysis of Emission Characteristics in I.C. Engines Using Catalytic Converter Coated with Titanium Dioxide and Cobalt Oxide Catalyst. of Jominy End Quench Apparatus according to ASTM A 255.

Minor Project: Design and Fabrication of Jominy End Quench Apparatus according to ASTM A 255.