

CURRICULUM VITAE

V. S. NAIR

PERSONAL INFORMATION

Name VISHNU NAIR
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Date of Birth 11/09/1989
Nationality Indian

EDUCATION AND TRAINING

Sep 2014–Jul 2016: **Master of Science (MSc) in Aerospace Engineering**

- **TU Delft, The Netherlands**
- **Specialization** : Flight Performance and Propulsion
- **Subjects**: Aircraft Aerodynamics, Aero Engine Technology, Aircraft Performance Optimization, Advanced Design Methods, Advanced Aircraft Design, Rotorcraft Mechanics and Design
- **Graduate Thesis** : Higher Order Spatial Discretization Schemes for Large Eddy Simulation (LES)
 - ❖ Implementation, verification and validation of a fifth order Weighted Essentially Non-Oscillatory (WENO) spatial discretisation scheme for an LES code for the simulation of turbulent compressible flows with high accuracy requirements
- **MSc Key Modules/ Projects** :
 - ❖ Development of a tool for multi-disciplinary optimization of aircraft wings for minimizing fuel weight (MATLAB)
 - ❖ Development of an aerodynamic analysis tool for solving incompressible potential flow over airfoils(based on linear strength vortex panel method) (MATLAB)
 - ❖ Development of a KBE (Knowledge Based Engineering) application to support the geometry modelling and analysis of various aircraft configurations, with particular focus on the design of the tail (LISP)

Sep 2007–Jun 2011: **Bachelor of Technology (B Tech) in Mechanical Engineering**

- **College of Engineering Trivandrum, India**
- **Under-graduate Thesis**: Technical and Economic Analysis of Hotel air conditioning using sea water including site evaluation, design and optimization of pipes, HEX and sea water route (2011)
 - ❖ Design and optimization of large diameter HDPE pipes of several miles length for cold water supply
 - ❖ Design of heat exchanger resistant to corrosion by seawater for chilling freshwater distribution medium

May 2005-Jun 2007: **Indian School Certificate Examination (A-levels)**

- **St Thomas Residential School Trivandrum, India**

WORK EXPERIENCE

Jan 2016 – Mar 2016: **Teaching Assistant - Applied Numerical Analysis**

- **Faculty of Aerospace Engineering, TU Delft**

Roles and Responsibilities

- Prepare solutions to homework and quiz questions
- Provide assistance to students during weekly help sessions
- Create quiz questions and invigilate exams

Jul 2011 – Jun 2014 : **Executive Engineer in Central Planning**

- **L&T-MHI Turbine Generators Private Limited, (India)**

(a JV between Larsen & Toubro India and Mitsubishi Heavy Industries Japan)

Roles and Responsibilities

- Detailed planning and scheduling for steam turbines for new projects (at macro and micro levels)
- Loading and scheduling work centres, load calculation and capacity planning for fabrication workshop
- Indigenisation of machining of HP turbine fasteners of special material (13% Cr)

SOFTWARE SKILLS

- Proficient in coding in Python, C++, MATLAB and LISP
- OS : Linux, Windows

PERSONAL INTERESTS

- Football : Former Member of Ariston '80 FC ; played in the 8e klasse of Dutch Saturday League
- Mountaineering, Long distance hiking