Suba Siva Chandran Kalimuthu

subasivachandran@gmail.com
+49 15175489000
Birthdate: 09.08.1993 | Nationality: Indian
https://subasivachandran.github.io/portfolio/

Professional work experience

January 2019 – August 2021

Studentische Hilfskraft (HiWi) at TU Braunschweig
Institut für Füge- und Schweißtechnik (IFS)

- Involved in developing a simulation model for predicting the temperature distribution of FRP in ABAQUS manufactured using laser joining technique
- Created a simulation model to identify the precise position of a sensor to be placed at the interface of metallic joining partners to measure the elongation upon tension
- Developed a subroutine in Python to manipulate the NASTRAN deck in order to perform engineering size optimization for the deflection of a beam problem using latin hypercube sampling
- Implementation of a FE model to evaluate the creep behavior of tensile test of butt-bonded cylinder and evaluate against the experimental results
- Establishment of a simulation model to systemize the workflow of sequentially coupled thermal-stress analysis problems in ABAQUS and comparing the results for same problem from ANSYS Workbench solver

January 2019 – March 2019

Studentische Hilfskraft (HiWi) at TU Braunschweig
Institut für Dynamik und Schwingungen (IDS)

- Implemented a MATLAB script to perform various mathematical operations on the vibration analysis data using OOP.

May 2015 – September 2017

Assistant Systems Ingenieur bei TATA Consultancy services
(Hyderabad & Bangalore, India)

- Development of scripts and Smartforms for the design of invoices and data changes requested by the customer for the automotive company Delphi in SAP ABAP

Education

October 2017 – September 2021

Master of Science: Computational Sciences in Engineering
Technische Universität Braunschweig, Germany. (2,0 / 4,0)
Master Thesis at Gesellschaft für numerische Simulation (GNS mbH, Germany): Simulation of process induced deformations of fusion bonded hybrid components and potential analysis in a car model
Student project work at Gesellschaft für numerische Simulation (GNS mbH, Germany): Simulation of production process related adhesive damage of adhesively bonded multi-material BIW

August 2011 – April 2015

Bachelor of Engineering: **Mechanical**
Institute of Road and Transport Technology (Erode, India). (1,9/4,0)

Bachelor thesis: Experimental investigation of the effect of input parameters for automated gas-tungsten arc welding of thin stainless steel 316L sheet

Research subject experience

April 2019 – September 2019 **Topology Optimization**

Condition based optimization in minimizing the overall mass mass of the structure using MMA function in MATLAB

Skills

Pre-processor	ANSA
CAE Tools	Abaqus, ANSYS CFX
Postprocessor	Animator 4
Programming	SAP, MATLAB, Python
CAD Tools	CATIA V5
Operating systems	Linux, Windows

Linguistic proficiency

Tamil	Mothertongue (C1)
English	C1 (IELTS – 7.0/10.0)
German	B2 (DSH - 1)

Hobbies

Playing football, Film making