Suba Siva Chandran Kalimuthu

Bienroder Weg 54, 38108 Braunschweig, Germany
subasivachandran@gmail.com
+49 15175489000

Academic Profile

October 2017 – August 2021	**Master of Science: Computational Sciences in Engineering** Technische Universität Braunschweig, Germany **Grade:** 2,1 **Semester:** 8 **Major subjects:** Finite Element Method, Topology Optimization, Multidisciplinary Design Optimization, Computational Fluid Dynamics, Computational Aerodynamics
February 2021 – August 2021	**Master thesis at Gesellschaft für Numerische Simulation (GNS mbH):** Simulation of process-induced deformations of fusion bonded hybrid components and potential analysis of components in a car model **Skill:** Abaqus, ANSA, Animator 4
December 2019 – April 2020	**Studienarbeit at Gesellschaft für Numerische Simulation (GNS mbH):** Simulation of production process-related adhesive damage of adhesively bonded multi-material Body in White (BIW) **Grade:** 1,7 **Skill:** Abaqus, ANSA, Animator 4
August 2011 – April 2015	**Bachelor of Engineering**: Mechanical Engineering Institute of Road and Transport Technology (Erode, India) **Grade:** 1,9 **Project:** Experimental investigation of effect of input parameters on Automated Gas Tungsten arc welding of thin stainless steel 316L grade sheet
June 2009 – April 2011	**Higher Secondary Education** Don Bosco Matriculation Higher Secondary School (Thanjavur, India) **Grade:** 1,3

Professional experience

January 2019 – August 2021	**Studentische Hilfskraft (HiWi) at TU Braunschweig** Institut für Füge- und Schweißtechnik (IFS) **Role:** Thermal and Fracture simulations, Automating Stress-Strain curve for topology optimization for structures **Skill:** Abaqus, NASTRAN, Python

January 2019 – March 2019	**Studentische Hilfskraft (HiWi) at TU Braunschweig** Institut für Dynamik und Schwingungen (IDS) **Role:** Automate the data fitting using OOP **Skill:** MATLAB
May 2015 – September 2017	**Assistant System Engineer at TATA Consultancy services** (Hyderabad & Bangalore, India) **Role:** Developer (SAP Reports & Smartforms) **Skill:** SAP

Research subject experience

October 2019 – March 2020	**Multidisciplinary Design Optimization** **Topic:** Application of numerical optimization techniques, air foil representation using CST method, Aerodynamic shape optimization of an air foil **Skill:** MATLAB
April 2019 – September 2019	**Topology Optimization** **Topic:** Constraint based optimization in minimizing the total mass of structure using MMA **Skill:** MATLAB

Software Knowledge

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

Language Proficiency

Tamil	Mother Tongue
English	Full Professional proficiency
Deutsch	Communicational proficiency (DSH - 1)

Interests & Hobbies

Football and Film making