VIGNESHWARK R

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Portfolio : https://vigneshwar-kr.github.io/Vigneshwar/index.html

LinkedIn : <u>vigneshwar k r</u>



PERSONAL DATA

DOB : 02/06/1999
Nationality : Indian
Marital Status : Single

Phone : 044 – 48538623

PASSPORT DETAILS

Given Name : Vigneshwar

Surname : Karuppiah

Ramanathan

Passport No : S1875227

Type : Permanent

Code : IND

TEST SCORES

- IELTS

Date : 14 Nov 2021Overall : 7.5

- GRE

o Date : 26 Sept 2021

Quants: 160Verbal: 141AWA: 4

Goethe Zertifikat A2

Date : 12 Oct 2019Score : 65 / 100

Goethe Zertifikat A1

Date : 1 May 2019Score : 90 / 100

LANGUAGES

Tamil *Native*

English *lelts 7.5*

German

A2

ACADEMIC BACKGROUND

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

B Tech in Mechanical Engineering

Score: 86.35 %

NSN MATRIC HR SEC SCHOOL
Higher Secondary

Mar 2015-Apr 2016
Score: 90.33 %

SRDF VIVEKANANDA VIDYALAYA

Central Board of Secondary Education

Mar 2013-Apr 2014

Score: 9.6 / 10

PROJECTS

QuickKart and TravelAway website

June 2021 -July 2021

- Developed two web applications (shopping and travel company) during
 .NET Full Stack Development training in Infosys using Visual Studio IDE.
- The database is built on Microsoft SQL Server, which is connected to the front end through API layer and Data Access Layer (DAL).

Simulation of Cost Optimal 3d Environment Mapping Using

Dual Axially Rotating Lidar Sensors

Aug 2020 – Sept 2020

- Engineered and programmed an innovative mechanical system containing dual axially rotating wheels which makes use of few sensors to reach most of the 3D space efficiently.
- The mathematical model of the system is simulated and the lidar's 3D space is mapped in SCILAB software using various parameters.

Experimental Investigation and Performance

Analysis of Heat Pipe

Feb 2020 – April 2020

 Fabricated a heat pipe setup with an Arduino-based temperature logging system, the efficient way of heat transfer is found by calculating thermodynamics characteristics under different input conditions.

Arduino Based Surveillance Rover

Sept 2019 – Nov 2019

 Designed, programmed, and fabricated a Bluetooth controlled Arduinobased rover using Arduino UNO, DC motors, and bridge motor dual driver.

Design and analysis of quadcopter frame structure

Feb 2019 – Mar 2019

- Designed and modeled Quadcopter frame model in NX 10. Analyzed the model to check the reliability of the body in Ansys Workbench.
- Static analyses are carried out based on the calculation of the magnitude of thrust produced by each motor and the weight of each component.

CONFERENCES / PRESENTATIONS

 Presented a paper on Resilience optimization of octocopter drones using two-stage thrusters and thrust vector locking at IEEE Global Conference for Advancement in Technology.

Vigneshwar, Ranjit Roshan and Noufal

Bangalore, Oct 2019

Presented a paper on Experimental analysis of emission characteristics in
 I.C engines using catalytic convertor coated with Titanium dioxide and cobalt oxide catalyst in National Conference on Current Research Outcomes in Mechanical Engineering.
 SRM-IST, Chennai, Mar 2019

IN-PLANT TRAINING

ILJIN AUTOMOTIVE PVT LTD

(May 2018 – Jun 2018)

- Engaged in the assembly of disc brake wheel axles and machining of its individual components.
- Gained industrial knowledge of manufacturing of various interior components of the automobile like door checker, control arms, and various joints.

POSITION OF RESPONSIBILITY

- Football team Captain
 SRM-IST, Vadapalani
 July 2019 April 2020
- Student Coordinator
 KRATORQ'19
 SRM-IST, Vadapalani
 Sep 2018 Sep 2020
- House Captain
 NSN Group of Schools, Chennai
 June 2014 May 2016

EXTRACURRICULAR ACTIVITIES

- Represented a private football club in the first division league for 3 seasons, participated, and won in various tournaments.
- Represented my university football team and won in various football tournaments.
- Volunteered in Sushanthi Seva, a community welfare organization from time to time since my schooling. Activities in assisted living facilities, retirement homes, and Emergency response activities during floods.

TECHNICAL SKILLS

Applications

Beginner

Ansys Fluent, Additive manufacturing, LaTex, OpenCV and NumPy

Intermediate:

AutoCAD, Catia, NX Unigraphics, Ansys Workbench, Arduino, MATLAB, Scilab,

WORK EXPERIENCE

Infosys (System Engineer)

Currently working as a *Systems Engineer* under the Data & Analytics development team (DNA) in finance domain with agile methodology.

 Developing and incorporating data warehousing, data marts, and ETL process using Microsoft SQL Server (SSMS) and SSIS for reports development and providing business intelligence solutions.

Simulation Lab (Research Intern)

Feb 2021 - April 2021

April 2019 - Present

- Worked on analysis of aerofoil for generating high lift when wing flap is introduced. The aerodynamic efficiency of the wing is Increased by adding a feature below the wing surface.
- Analysis was conducted for various Parameters with different feature designs, angle of attack, and range of velocities. For each data, simulation was carried out in Ansys Fluent and then the parameter of the wing with the maximum efficiency (Lift-Drag ratio) is selected.

Arobot (Intern)

Sept 2020 – Dec 2020

- Designed various engineering applications using AutoCAD, NX Unigraphics.
- Collaborated and designed new industry automation applications.

IP RINGS LIMITED (Intern)

May 2019 – Jun 2019

- Worked in manufacturing of different gears used in the differential unit.
- Worked in tool drafting and designing in AutoCAD and Catia V5.

CERTIFICATION COURSES

Diploma in Product Design and Analysis

CADD Centre

- AutoCAD 2D, CATIA, Ansys Workbench, GD&T

Machine Learning Using MATLAB

Coursera

- Supervised and Unsupervised learning algorithm.
- Basic practices followed in ML.
- Case studies and various projects

Siemens NX Unigraphics

Udemy

Drafting, Assembly, Part Modelling, Surface Modelling

Basics of Finite Element Analysis (FEA) - I

NPTEL

Score: 79 / 100

- FEA is the simulation of a physical phenomenon
- Covered I-D BVP, time-dependent problems
 Also dealt with Eigen value problems.

WORKSHOPS

Computer vision and Image processing

MIT, Chennai, Mar 2019

- Image processing using Python OpenCV.
- Face recognition and drone path programming using DJI Tello SDK.

Artificial intelligence and Machine learning

SRM-IST, Chennai, July 2019

- AI, ML, deep learning and their applications.
- Popular algorithms, tools, Gartner cycle, and current trends.

Robotics Workshop (Isensobots)

SRM-IST, Chennai, Aug 2016

- Programming various sensors and modules using Arduino UNO and MEGA.
- Developing Line following robot and obstacle avoiding robot

PROGRAMMING

Beginner - Python, JavaScript

Intermediate - C++, C#, Java, DBMS, SQL, HTML, CSS, Git

DATABASE TOOLS AND IDE'S:

Microsoft SQL Server, MongoDB, Microsoft Visual Studio and VS Code, Jupiter

CLOUD COMPUTING SERVICE and PROJECT MANAGEMENT PLATFORM:

Microsoft Azure, Jira, Confluence