Kishore Mysore Nagaraja

7575 Frankford Road | Dallas, TX 75252, USA | 214-718-7654 |

kishore.mysorenagaraja@utdallas.edu

EDUCATION

The University of Texas at Dallas — Dallas, TX
Ph.D. Student in Mechanical Engineering. GPA: 3.57/4.00 — Spring 2024

PES University — India
BE in Mechanical Engineering. GPA: 8.13/10 — August 2016

Government CPC Polytechnic — India
Diploma in Mechanical Engineering. GPA: 8.5/10 — June 2013

EXPERIENCE

The University of Texas at Dallas — Dallas, TX

1. Graduate Researcher — 2020 – Present
   - Multi-physics, multi-scale modeling of metal additive manufacturing processes such as Powder Bed Fusion (PBF), and Direct Energy Deposition (DED).
   - Microstructure evolution modeling of Hybrid Additive Manufacturing process involving DED and Ultrasonic Nanocrystal Surface Modification.
   - Laser Shock Peening experimentation.
2. Teaching Assistant — 2020 – Present
   - Computational modeling for additive manufacturing using Ansys.

PES University — India

1. Research Assistant — Oct 2018 – Dec 2019
   - Chassis design for 16 seats light commercial vehicle. – QuantumPoint, US.
   - Computational validation of a Bus for Blast Proof. – Enlivening Tech, India.
   - Dental Tooth decay and repair modeling.
2. Research Assistant — Jan 2016 – Feb 2017
   - Building dual propulsion composite unmanned aerial vehicle. – Safran Aerospace, India.
   - Friction Stir Welding Experimentation of Copper and Aluminum Metals. – Siemens, India.
   - Rotordynamics Experimentation of a Helical Hear coupled with Motor. – Siemens, India.

Siemens Technology and Services Private Limited — India

1. Junior Design Engineer — Mar 2017 – Sep 2018
   - Life estimation of Polymer Matrix Composites.
   - Failure Mode Effective Analysis for 6 production line healthcare equipment for CrO_2.
   - Digital Twin application in Composite Materials Design for Fatigue.
   - Gas Turbine advanced engineering collaborative solution testing.
   - Advanced composite manufacturing intelligence in NX Laminate.
   - Developing an alternative composite manufacturing process.

SKILL

CAE Software: Flow3D, Abaqus, Ansys, Nastran, LS Dyna, Hypermesh, Ansa.
CAD Software: NX Cad, Catia, Solidworks, Autodesk Inventor.
Programming Software: Basic Proficiency – Matlab, Python, Fortran.

CONFERENCE

1. Kishore MN, Wei Li, Youngsik Pyun, Dong Qian "Modeling Analysis of UNSM's Effect on Residual Stress in Laser Directed Energy Deposition", USNCCM16, Chicago, US, July 2021.
2. Kishore MN, Hrushikesh Patil, Suresh Nagesh "Life Prediction Model for Composite Leaf Spring", 8th Before Reality Conference, BETA CAE Systems. Munich, Germany, 2019.
3. Kishore MN, M Sai Krishna, Suresh Nagesh "Performance Analysis of Continuously Varying Transmission for an Electric Vehicles", IEEE Sustainable Technology Conference, Phoenix, US, 2016.
4. Kishore MN, M Sai Krishna, Suresh Nagesh "Innovative Landing Gear for Unmanned Aerial Vehicles", IEEE Global Humanitarian Technology Conference, Seattle, US, 2016.

COMPETITION

1. ASME Innovative Design Simulation Challenge 2016, ASME Additive Manufacturing Conference, Charlotte, US, 2016. – Best Utility Prize – $4500 – "Design of Landing Gear for Unmanned Aerial Vehicle using 3D Printing Technology".
2. ASME Poster Competition 2016, ASME Commercialization of Micro, Nano, and Emerging Technology Conference, Houston, US, 2016. – Best Poster Prize – $500 – "CVT Technology for the Electric Vehicles and the Additive Manufacturing Capability in UAV Design".

PUBLICATION

1. Wei Li, Kishore Mysore Nagaraja, Xinchang Zhang, Dong Qian, Hongbing Lu, "Multi-physics Modeling of Powder Bed Fusion and Thermal Stress", 2021 - Manuscript Submitted.
2. Wei Li, Kishore Mysore Nagaraja, "Modeling Study of Porosity's Effect on Grain Evolution During Directed Energy Deposition", 2021 - Manuscript Submitted.