KEVIN THOMAS FERNANDEZ

B.E, MECHANICAL ENGINEERING GRADUATE

CONTACT

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TECHNICAL SKILLS

- **Design software**
  Catia V5, Solid works, Ansys, Fusion 360, Adobe premiere pro, Adobe Illustrator.
- **Documentation software**
  Microsoft word, Power point, Excel, Canva.
- **Communication skills**
  Public speaking, English proficiency (speaking and writing), Digital marketing, Content writing, Video post-production
- **Core competencies**
  Process-optimization, Resource management, Cost reduction and analysis and Method improvement
- **Programming language**
  Python

CERTIFICATION

- **Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360,** Coursera (Jul'21)
- **Mastering Ansys CFD 2,** Udemy (Apr'21)
- **2021 Complete Python Boot Camp from Zero to Hero in Python,** Udemy (Dec'20)
- **Mastering Ansys CFD 1,** Udemy (Jul'19)

SUBJECT/RESEARCH INTEREST

- Aerodynamics & fluid mechanics
- Study of materials
- Design of structures
- Aircraft design
- Automobile design
- Computer aided design

COURSEWORK

- Fluid mechanics
- Design of machine elements –I & II
- Aircraft and & Instrumentation
- Computer aided modeling and analysis laboratory

CAREER OBJECTIVES

A well rounded Mechanical engineer and aspiring Aerospace engineer, who has the ability to evaluate mechanical systems and products by coordinating thorough research and has the ability to communicate technical information in a precise and convincing manner. Looking to work in an organisation, where hard work and excellence is appreciated,while contributing to your success.

EDUCATIONAL HISTORY

Carmel High School, Bengaluru, Karnatka
10th ICSE board, 06/2014 - 04/2015 — 85%

Carmel Pre- university college, Bengaluru, Karnatka
PCME (Physics, Chemistry, Math and Electronics), Karnataka Pre-University board (06/2015 - 04/2017) — 95%

Dayananda Sagar college of engineering, Bengaluru, Karnatka
BE Mechanical, affiliated to Visvesvaraya Technological University (VTU), Belgaum, Karnataka, (08/2017 - 08/2021) — 8.49 /10 CGPA

INTERNSHIP EXPERIENCE

Bangalore Aircraft Industries Pvt. Ltd.

Intern, Design engineer, Bangalore Aircraft Industries Pvt Ltd, Bengaluru
Duration : (Aug – Sep'20)

- Designed and performed analysis on 'Spar' of an airplane, using the software MSC Nastran and Patran
- Applied the right methods of designing; beginning with shear force diagram and bending moment diagram of spar and then, performing evaluation of cross section
- Carried out design calculation of tensile flange; finally, executed finite element analysis of spar
- Understood relationship between material properties such as effect on stress induced in the beam due to change in load and dimensions of beam

PROJECT

Assembly Line Balancing for Real-Time Industrial Data

Final year project
At Company VST tillers and Tractors PVT. LTD.
Duration: (08/03/2021 – 30/04/2021)

Section of the plant worked on: newly constructed Greenfield project for assembly of 45 &50 HP tractors
Team Size: 4

- The objective of this project was to distribute the total workload on the assembly line evenly as possible among the workstations so that all workers get an equal amount of work, keeping the precedence constraints in consideration and satisfying them.
- Maynard Operating Sequence Technique (M.O.S.T) was opted as method of preference.The layout designed had efficiency of work time improved by a positive 47.96% in the differential line and 65.74% in the roll off line for a daily target, for 20 tractors.An inference was drawn using the same layout, for a maximum target of 61 tractors at 7.5 mins takt time, where a theoretical line efficiency of 96.72% in the differential line and 77.04% in the roll off line could be achieved.

Analysis of VTOL Tri-copter

Mini-project
Location: Dayananda Sagar College of Engineering, Bengaluru, Karnataka
Team Size: 4
Duration: 3 weeks, Feb '20

The project involved using a concept drone as base model and Naca0009 as airfoil, where a modified verison was modeled on Catia .For this purpose, studied the variation in deformation, stress, strain distributions and bending analysis, using Ansys Mechanical; and studied computational fluid flow over the tri-copter, pressure counter for the UAV, using Ansys fluent.

AWARD/ ACHIEVEMENT

- **Certificate of Achievement;** received for working in the 'Emcee Team' and organizing college fests 'Vibrations' and 'Furore', conducted by the Centre for Performing Arts, DSCE (October '18, October '19 and March '19)
- **Certificate of Coordinator;** for organizing and working in Torque8.0, National Level Technical Symposium, Dayananda Sagar College of Engineering (April '19)
- **Most Promising Student, Honorary;** for 2 consecutive years, Carmel Pre-University College, Bengaluru (Jan'16 and Jan'17)

SKILLS SUMMARY

- CAD Modeling
- Leadership
- Communication
- Documentation
- Co-ordination
- Interpersonal skills
- Team work

LANGUAGES

- English
- Kannada
- Hindi
- German
- Konkani

COLLEGE CO-CURRICULAR ACTIVITIES

- **Delivered a technical presentation on 'Kinetic Energy Recovery System',** Department of Mechanical Engineering (Mar'21)
- **Attended three-day workshop on 'MATLAB for Mechanical Engineers',** conducted by The Institution of Engineers (Feb'20)
- **Attended two- day 'Digital Marketing Workshop',** at 'E-summit'19' event, conducted by Institute of Marketing (Mar'19)
- **Participated in the two-day 'E-summit '19' event,** by Innovation and Entrepreneurship Development Centre, Dayananda Sagar College of Engineering (Mar'19)
- **Attended two-day 'Robotics - Aurdino Workshop',** conducted by Times World Group in association with Ministry of Science & Technology, Govt. of India and All India Council for Robotics & Automation (Feb'18)
- **Participated in TechnoXian competition,** conducted by Times World Group in association with Ministry of Science & Technology, Govt. of India and All India Council for Robotics & Automation. , (Feb'18)

EXTRA-CURRICULAR

- **Member, Student Cultural Team, Center for Performing Arts, DSCE (2017 - 2020)**
  - o Junior Coordinator (2018-2019) and Head of Emcee Team (2019-2020)
  - o Delivered public speaking training through workshops, on and off campus
  - o Co-ordinated 3-week induction program for new students on campus (September '18 and August'19)
  - o Hosted college events; such as Furore and Vibrations cultural fests, Cultura (weekend talent show) and Under 25 event on campus
  - o Held auditions for prospective members of Emcee team
- **Member, Centre for Innovation and Leadership, DSCE**
  - o Completed Dynamic Skills Integrated Program (2017-2021)
  - o Participated in one-day workshop on 'Working in Teams and Interpersonal Skills workshop', (Mar'19)
  - o Attended one-day 'Dynamic Skills Integrated Program Workshop' (Oct'17)
- **Participated in District level Basketball competitions (Reva University, Bengaluru in 2015) and (St. Claret College, Bengaluru in 2016)**