#### **ALTHAF MOHAMMAD**

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### **JOB OBJECTIVE**

A dedicated & knowledgeable administrator, in quest of assignments in Research & Development/ Application Engineering with an organization of high reputation.

#### PROFILE SNAPSHOT

- A Budding professional with over 7 years of experience in Design, Analysis, Research and Development in the field of CATIA, Aerodynamics, CFD(Computational Fluid Dynamics)
- Quality Control Engineer, Quality Management, Quality Engineering, AS9100, ISO 9001,
   Quality Systems, Aerospace, Aeronautical, CATIA
- Technical expertise entails Lab-View Programming for real time Data acquisition. Ansys Fluent Ansys CFX. AutoCAD, CATIA. Well versed with CFD Coding
- Well-versed knowledge of ICEMCFD Meshing Structured and Unstructured. CFD Pre and post processing with Validation results.
- Good 2D/3D simulation and modeling, Well-versed knowledge of CATIA software and Ansys Fluent
- CATIA Sketcher, Part, Assembly, Surface, Bill of material(BOM), Generative Shape Design (GSD), GD&T, Surface and Composite
- Sound knowledge of Aerospace Structures, Computational Fluid Dynamics, Aerodynamics, Wind Tunnel Testing and Aircraft Systems
- An effective communicator with good planning, problem solving and analytical skills
- Expertise in managing entire operations with key focus on top line & bottom line profitability by ensuring optimal utilization of resources
- CATIA Professional Certification under process

## **ACADEMIC QUALIFICATIONS**

- **M.Tech. Aerospace Engineering** from Institute of Aeronautical Engineering, Dundigal, JNTU Hyderabad in 2011
- **B.Tech. Aeronautical Engineering** from Institute of Aeronautical Engineering, Dundigal, JNTU Hyderabad in 2008

#### **EMPLOYMENT DETAILS**

May'18 to Present Pioneer Design and Engineering Pvt Ltd,
Sep'13 to Apr'18 Defence University, College of Engineering,
Associate/Assistant Professor

**Project Engineer Research** 

Feb'12 to Apr'13 MVJ College of Engineering, Bangalore, Research

**Associate/Assistant Professor** 

May'08 to Jul'09 IIT, Kanpur Project Associate

(National Wind Tunnel Facility, Department of Aerospace Engineering)

- Researching various teaching methods, information about students with special needs, and keeping abreast of teaching methodologies
- Spearheading curriculum planning, professional development; implementing educational programs
- Setting of question paper as per standardized and moderation standards of question papers
- Planning & organizing day-to-day research activities and resolving procedural problems as appropriate to the timely completion of research objectives

### **Highlights:**

## Defence University, College of Engineering, Ethiopia

- Pivotal in demining operation using Effectively designed &development future Flight Vehicles, Aerodynamics, Stability and Control of Aerospace Vehicles to perform its operation.
- Holds the distinction of working in the wind tunnel development for the future development of department.
- Successfully finished design and development of Quadcopter for Defence Applications.
- Guiding PG/UG Project at department level, actively participation of Research activity at university and industry requirements

## MVJ College of Engineering, Bangalore

- Guiding PG/UG Project at department level, actively participation of Research activity at university and industry requirements
- Served as an Event coordinator for the Aerobuzz 2012 conducted on 30-31 Aug., 2012
- Assisted in preparing National Board of accreditation

#### PREVIOUS EXPERIENCE

May'08 to Jul'09 IIT, Kanpur

**Project Associate** 

(National Wind Tunnel Facility, Department of Aerospace Engineering)

**Assignment Handled:** 

Title: Modelled Space Shuttle Nose and Launch-pad using CATIA V5 R16 for

**Aerodynamic Analysis** 

Period: May'08 to Jul'09

Description: The main objective of these studies was to evaluate aerodynamic load

(mainly drag) and moments in order to assess performance of these structures. Using the Wind tunnel testing for Experimental aerodynamics study with the help of Lab-View software used to perform real time data

acquisition.

#### IT SKILLS

Operating Systems: MS Windows 98/2000/XP/Vista and Linux

Languages: Python, C, C++ and MATLAB
Design Packages: AutoCAD and CATIA V5

Analysis Packages: ICEMCFD, ANSYS Fluent & ANSYS CFX, ANSYS workbench,

Hypermesh CFD++, Tec Plot and Lab View

#### **CERTIFICATIONS**

- Advance CFD at Aeronautical Society of India, Bangalore 2011, learnt about the code writing on 2D grid generation and writing NS solvers
- CATIA (Modeling, Surfacing, Assembly & Drafting) at Central Institute of Tool Design, Hyderabad
- Has undergone Training at National Instrumentations LabVIEW Core1 and Core2 from 11<sup>th</sup> to 15<sup>th</sup> September 2017, Bangalore

#### **PUBLICATION**

- A Computational Study of Vortical Flow Structures over a Compound Delta Wing Body Configuration" - Sameer Karania, Althaf Mohammad, Satya Prakash, 14<sup>th</sup> at AeSI Annual CFD Symposium on August 10-11, 2012, Bangalore
- "Unsteady Flow Over an Oscillating Airfoil" Althaf Mohammed, Anton Savio Lewise, International Conference on trends in Mechanical, Aeronautical, Computer, Civil, Communication and Electrical Sciences, Volume 4, Special Issue 3, February 2014, page numbers 347-351, on 19th and 20th February 2014, Tamil Nadu India. Journal Impact Factor of 4.027

## **MEMBERSHIP**

- ASQ(American Society for Quality) Full Member Number 65714983
- AeSI (The Aeronautical Society of India), **G-11987**
- Life Member of ISTE (Indian Society for Technical Education), LM 85874

#### **EXTRAMURAL ENGAGEMENTS**

- Actively participated in Aerodyne 2k6 in Aero Modeling Category and bagged 1st prize
- Bagged 2<sup>nd</sup> position in All India, Hovercraft competition in Shaastra held at IIT Madras in 2007

# **CONFERENCE ATTENDED**

- 58<sup>th</sup> International Astronautical Congress held at Hyderabad, India during September 24<sup>th</sup> -28<sup>th</sup>, 2007
- 7<sup>th</sup> Annual Infectious Diseases Society Conference CIDSCON 2017, at Nagpur from 18<sup>th</sup> to 20<sup>th</sup> August 2017

# Declaration:

I do here by confirm that the information given in this form is true to do the best of my knowledge and belief.

Place: Bangalore