M. AERO ENG

386-555-5555 ● masteraeng@yahoo.com

OBJECTIVE

Challenging position as an aerospace/mechanical engineer in an interactive environment.

EDUCATION

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY — Daytona Beach, FL
Master of Science in Aerospace Engineering, CGPA 3.8/4.0 — Aug 2018

Thesis Topic: **Investigation of a highly loaded, high pressure ratio axial turbine stage for industrial applications**: Conducted a preliminary design of a gas turbine stage with a pressure ratio of 5.0, parametric studies as to annulus shape, hade angles, degree of reaction, stage exit swirl angle, stator and rotor airfoil shapes and vortex design using industry codes (UD0300M, AXOD, TD-II, T-foil, Tasc Flow, CCGEOM, CFX-Bladegen, TURB), 2D and 3D CFD analysis using Star-CD.

KURUKSHETRA UNIVERSITY — Haryana, India
Bachelor of Science in Mechanical Engineering, CGPA 3.26/4.0 — June 2015

RELEVANT EXPERIENCE

BOEING COMMERCIAL AIRPLANES — Seattle, WA
Maintenance Engineer II, P-8A Poseidon Program, Maintenance Engineering — September 2017 – Present

- Analyze engineering designs and design changes to determine maintenance/repair requirements, procedures and instructions
- Influence product designs and processes to ensure supportability and maintainability
- Develop fault isolation procedures and techniques
- Create systems theory descriptions to ensure common understanding of systems and components
- Conduct engineering analyses to verify the accuracy of maintenance/repair data
- Provide technical assistance; evaluate and make process improvement recommendations for customers' maintenance operations

FEDERAL EXPRESS — Memphis, TN
Engineering and Technical Planning Intern II, Maintenance Engineering — May 2016 - August 2017

- Assisted in maintenance engineering, technical planning, surveillance, analysis, technical project management and monitoring the corrective actions in assuring compliance with the Federal Aviation Regulations (FAR) and Federal Express's manual system
- Provided assistance and support to Engineers, Analysts, Technical Planners and Management on a wide range of areas within Air Operations

PROJECT EXPERIENCE

Computational Fluid Dynamics - Constructed a pseudo-code for a two dimensional laminar, viscous, supersonic flow over a flat plate at zero incidence using Navier-Stokes approach

Advanced Incompressible Aerodynamics - Constructed a two-dimensional lumped-vortex panel code using MatLab and introduced sudden NACA 4412 airfoil acceleration

Combustion - Detailed kinematics mechanism for hydrogen combustion to investigate the behavior of an adiabatic, well-stirred reactor. Vary the residence time between the long-time (equilibrium) and the short time (blowout) limits. Numerically integrate the rate equations in time until steady state is reached.

COMPUTER SKILLS

Software: MATHCAD, MATLAB, CATIA v.5, BLADEGEN, STANJAN; Microsoft Word, Excel, PowerPoint
Languages: FORTRAN

PROFESSIONAL ACTIVITIES

Boeing certificate of recognition for exceptional performance
Team leader of Boeing AME Computing Team
Member of Boeing AME Employee Engagement Team
Member of Boeing AME Lean Support Team
Boeing 777 Familiarization and Servicing training (ALTEON Certified)
Member of ASME (American Society of Mechanical Engineers)

LANGUAGES

English and Hindi (India)