

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 Master of Science in Aerospace Engineering , CGPA 3.8/4.0	Daytona Beach, FL Aug 2011
	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 Bachelor of Science in Mechanical Engineering , CGPA 3.26/4.0	Haryana, India June 2009
RELEVANT EXPERIENCE	BOEING COMMERCIAL AIRPLANES Maintenance Engineer II , P-8A Poseidon Program, Maintenance Engineering	Seattle, WA September 2011 – Present
	<ul style="list-style-type: none">Analyze engineering designs and design changes to determine maintenance/repair requirements, procedures and instructionsInfluence product designs and processes to ensure supportability and maintainabilityDevelop fault isolation procedures and techniquesCreate systems theory descriptions to ensure common understanding of systems and componentsConduct engineering analyses to verify the accuracy of maintenance/repair dataProvide technical assistance; evaluate and make process improvement recommendations for customers' maintenance operations	
	FEDERAL EXPRESS Engineering and Technical Planning Intern II , Maintenance Engineering	Memphis, TN May 2011 - August 2011
	<ul style="list-style-type: none">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 systemProvided assistance and support to Engineers, Analysts, Technical Planners and Management on a wide range of areas within Air Operations	
PROJECT EXPERIENCE	<u>Computational Fluid Dynamics</u> - Constructed a pseudo-code for a two dimensional laminar, viscous, supersonic flow over a flat plate at zero incidence using Navier-Stokes approach <u>Advanced Incompressible Aerodynamics</u> - Constructed a two-dimensional lumped-vortex panel code using MatLab and introduced sudden NACA 4412 airfoil acceleration <u>Combustion</u> - 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	<i>Software:</i> MATHCAD, MATLAB, CATIA v.5, BLADEGEN, STANJAN; Microsoft Word, Excel, PowerPoint <i>Languages:</i> 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)	