Profile ambition

I dream to be “Chief Strategy &Innovation Officer” of an Organization that works for engineering excellence to discover the inventor in each one of the associates. Currently I am leading Engg innovation Initiative of global enterprise.

Current role involves co-innovating with customer for creating intellectual property, new products, and platforms. New technology application for customer problems.

PROFESSIONAL EXPIERENCE

|  |  |  |
| --- | --- | --- |
| Designation | Company | Year |
|  |  |  |
| Convener-Engg Innovation | Cyient Limited | 2014- till date |
| Asst Project Manager | InfoTech Enterprises, Hyderabad | 2012-2014 |
| Scientific Officer-D | Atomic Energy Regulatory Board (BARC), Mumbai | 2007-2012 |
| Scientific Officer-C | Atomic Energy Regulatory Board (BARC), Mumbai | 2003-2007 |

PROFESSIONAL EDUCATION

|  |  |  |  |
| --- | --- | --- | --- |
| Course | Institution | Year | Highlights |
| M.tech(Mechanical) | IIT Mumbai | 2003-2005 | Topper |
| B.E (Mechanical) | Osmania University | 1999-2003 | One Among topper |
| DAE | GPT Masabtank | 1996-1999 | Topper |

White papers, Concept papers

1. Comprehensive bird strike simulation of aircraft structures, cyient limited Hyderabad

National, International Conferences

1. Comprehensive bird strike simulation of aircraft structures, cyient limited Hyderabad

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| --- | --- | --- | --- | --- |
|  |  | |  | |
|  | **Ravi Katukam,** Aircraft Wing structural optimization : An Insight, Altair technology conference series, 9th june 2014 | | **2014** | |
|  | **Ravi Katukam**God is an Engineer &Vice versa cyeint Limited | | **2014** | |
|  | **Ravi Katukam** Discover the inventor in india for global creations” acharya institute banglore 15th may 2014 | | **2014** | |
|  | **Ravi Katukam Discover the inventor Boeing –IITKanpur externship may 12th 2014** | |  | |
|  | **Ravi Katukam** Discover the innovative leader in india for global creations, London management academy 5th april 2014 hyderabad | |  | |
|  | **Ravi Katukam, Simulation for Innovation in Aerospace & Defence, ICMPC**,3rd International conference on Materials characterization & processing 8-9th march 2014 | | **2014** | |
|  | **Ravi Katukam** Discover the inventor in India for global creations, conference on campus to corporate 22-23 feb 2014 escihyderabad | | **2014** | |
|  | **Ravi Katukam,** “ Discover the Inventor”, Infotech Enterprises Ltd, Hyderabad December 2013 | | **2013** | |
|  | **Ravi Katukam**, Ritu Singh, S.K Gupta,Fuel clad behavior under Accident conditions Some Insights,Discussion Meeting on Burst test 21st July 2011 AERB, Mumbai | | **2013** | |
|  | ChiragSoni, **Ravi Katukam**, Bird Strike Analysis of Airframe: Comparison of Methods and Validatiton, Abaqus Regional Users Meet 2013. 22nd Oct 2013. | | **2013** | |
|  | **Ravi.K**, Ritu J Singh, S.K. Gupta. Core Disassembly model for Indian PHWR, Theme meeting on thermo mechanical behavior of Pressure tube under Accident conditions, BARC India, 03 June 2011 | | **2013** | |
|  | **Ravi.K**,Ritu J Singh, *“Flow behaviour through small (wavy )channels”*, AERB-USNRC, workshop Workshop of AERB-USNRC on standard problem exercise AERB-United States Nuclear Regulatory Commission, June 30–July 2,2010. | | **2013** | |
|  | **Ravi Katukam,** “Discover the Inventor**”** for Innovation, 23rd Dec 2013 Infotech Enterprises Ltd, Hyderabad | | **2013** | |
|  | **Ravi Katukam,** “Discover The Inventor-Leadership for Innovation**”**, Global Intellectual Property Convention, 16-18 January **2014** | | **2014** | |
|  | **Ravi Katukam"**Discover The Inventor “In InfoTech for global Creatuins2014  22nd Jan 2014 | |  | |
|  | | **Ravi Katukam**Discover the inventor in India for global creations 22-23 feb 2014 escihyderabad | | **2014** |

Journal Publications

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | Prajna Behra, **Ravi Katukam,** Engineering Optimizaiton using Nueral Networksm IJIET October 2014 | **2014** |
|  | Anudeep Motaparthi, Diwakar G, Ravi Katukam, Design of a Quadcopter, IJIET September 2014. |  |
|  | Ravi Katukam, Anudeep Motarthi, MAV for Fire exhsigutishing **International Journal of Engineering Innovation & ResearchVolume 3, Issue 3, ISSN: 2277 – 5668** | **2014** |
|  | Ravi Katukam.Discover the Inventor Leadership for Innovation /International Journal of Modern Sciences and Engineering Technology (IJMSET) Volume 1, Issue 1, 2014, pp.30-34; | **2014** |
|  | Ravi Katukam, Personal Air vehicle VTOL, Discover Publications | **2014** |
|  | Prakash Marripati, **Ravi Katukam** manzoor hussain ” Crash Survivability Safety Devices” IJLET May volume 4 issue 1 2014 | **2014** |
|  | Laksmhi krian Pragada, ravi Katukam Manzoor hussain,”Innovation for safe travel”, International Journal of Innovations in Engineering and Technology (IJIET),Vol. 3 Issue 4 April 2014,108-114. | **2014** |
|  | Ritu J Singh, **Ravi K, Gupta**S.K,.“Methodology for developing channel disassembly criterion under severe accident conditions for PHWR”, Annals of Nuclear Energy Volume 38, Issue 9, September 2011, Pages 1884-1890. | **2013** |
|  | AlamT, Khan.M.K,PathakM,Ravi.K,RituJSingh,S.K.Gupta, Review o f Clad failure studies’,Nuclear Engineering and Design,241(9),pp.3658-3677. (Most Downloaded article in Nuclear Engineering & Design) | **2013** |
|  | Nizam Khan, **Ravi Katukam**, “Foreign Object Damage Analysis of Aircraft Structural Materials”. Advanced Materials Manufacturing & Characterization Vol3 Issue 1 (2013),pp.389-394. | **2013** |
|  | Pranav kumarsingh, **Ravi Katukam**. “Simplex tool for engineering optimization”. International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 8, August – 2013 ISSN: 2278-0181, pp.740-746. | **2013** |

National/International Conferences

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | Anuja.G, Ravi Katukam, Parametric Study on in heavily loaded beams in Aircraft Beams, ICMPC March 2015 (Selected) | 2015 |
|  | Ravi Katukam, Bird Strike Simulation, Indian Science Congress, Mumbai January | 2015 |
|  | Bhaskar reddy, vamshi Krishna **Ravi Katukam** Lift increment in micro air vehicle using fanned wing, micro air vehicle conference November Hyderabad | 2014 |
|  | **Ravi Katukam** Bird Strike Simulation In Assuring Aircraft Safety, SCC2014SIMULIA COMMUNITY CONFERENCE May 19-22, 2014 • Providence, RI USA | 2014 |
|  | Ravi K, Aerospace & Defense Emerging markets for India. ICOMBS Aug 8-9,2013, IBS Hyderabad Aug2013 | 2013 |
|  | **Ravi.K** Mathematics for Aircraft Engineering applications, NCAMEI-conference, KU Warangal, 26-28,2013. | **2013** |
|  | Nizam Khan, **Ravi Katukam,** FOD Analysis of Aircraft Materials. ICMPC-2nd International Conference on Material Processing and Characterization,16-17,March 2013. Hyderabad | **2013** |
|  | **Ravi.K**, Aditya.A, Effect of Ice Accretion on Vibration and Fatigue Characteristics of Gas Turbine Components, IEEE,2013 IEEE Aerospace ConferenceBig Sky, Montana,    Mar 2- Mar 9, 2013 | **2013** |
|  | **Ravi.K**, Aditya.A, Concurrent Optimization of Multistage Turbine Blades Using Coupled Aerothermal-aeroelastic Analysis, IEEE, 2013 IEEE Aerospace ConferenceBig Sky, Montana,    Mar 2- Mar 9, 2013 | **2013** |
|  | **Ravi.K**Mathematics for Engineering Applications: An Insight,Ramanujan Memorial Symposium in Mathematics and its Applications, RMSMA2012, Hyderabad India. | **2013** |
|  | **Ravi.K, Aditya,A,** Concurrent Design Optimization of Multi-Stage Turbine Blades using Coupled Aerothermal and Unsteady flow Analysis, ICCMS-12 Hyderabad, India | **2013** |
|  | **Ravi.K, Aditya.A,** Effect of Ice Accretion on vibration and fatigue characteristics of Gas Turbine Components, ICCMS-12 Hyderabad, India. | **2013** |
|  | **Ravi.K,** RituJSingh, S.K.Gupta, *Compressible flow through wavy channels,* ProceedingsSecondInternationalConferenceonReliabilitySafetyandHazard–Risk Based Technologies and Physics of Failure Methods (ICRESH 2010), Mumbai,India December14-16,2010. ( [10.1109/ICRESH.2010.5779562](http://dx.doi.org/10.1109/ICRESH.2010.5779562)) | **2010** |
|  | **Ravi.K,** RituJSingh,S.K.**Gupta**.,*“FuelBundledeformationunderAccidentConditions”* SMiRT-21,6-11,NewDelhi,India. | **2013** |
|  | **Ravi.K,**RituJSingh,S.K.Gupta.,*“SeismicAnalysisofLiquidStoragetank’ SMiRT*-21,6-11,NewDelhi,India. | **2013** |
|  | **Ravi.K,**K.Srivasista, S.K.Gupta “*Nuclear Regulation: Role of AERB Standard”s,*ICAER,2011,IITB, Mumbai. | **2013** |
|  | **Ravi.K,** K,Srivasista, S.K. Gupta., *“Decarbonizing power sector: Nuclear option”* ICAER,2011, IITB,Mumbai | **2013** |
|  | K.Srivasita,**K.Ravi**,S.K.Gupta,“*Improvementaroundnuclearpowerplantsfor effective implementation of emergency counter measures”,* Proceedings of 4thNationalconference on Nuclear Reactor Technology(NRT-4),Mumbai,4-6,March,2011. | 2013 |
|  | **Ravi.K,** RituJSingh, S.K.Gupta, *Compressible flow through wavy channels,* ProceedingsSecondInternationalConferenceonReliabilitySafetyandHazard–Risk Based Technologies and Physics of Failure Methods (ICRESH 2010), Mumbai, India December14-16,2010( [10.1109/ICRESH.2010.5779562](http://dx.doi.org/10.1109/ICRESH.2010.5779562)) | **2013** |
|  | **Ravi K**, Ritu J Singh, Gupta S.K .**Reactor Channel Disassembly Criterion**, International Conference on Theoretical Applied Computational and Experimental Mechanics, ICTACEM 2007, December 27-29, 2007 IIT Kharagpur. | **2013** |
|  | **Ravi K**, Ritu J Singh, Gupta S.K .**Structural Integrity of Nuclear Fuel Bundle,**Interquadrennial conference of the international conference on Fracture (IQCICF-2008), August 3-7,2008, Indian Institute of Science, Bangalore. | **2013** |
|  | **Ravi K,**RituSingh,S.K.Gupta, **Core Disassembly for Indian PHWRs in a Technical Meeting on Severe Accidents**, Accident Management and PSA Application for PHWRs, Mississauga, Canada, 10–13 November 2008. | **2013** |
|  | **Ravi K**, Ritu Singh, Gupta.S.K.,**Fuel Bundle deformation under accident scenario,**17th International conference on nuclear engineering (ICONE-17). Brussles, Beglium. | **2013** |
|  | **Ravi.K**, Ritu Singh, Gupta. S.K, “Effect of High Temperature creep on calandria tube Deformation” International conference on Advances in Nuclear Materials and metals & Material behaviour Far from equilibrium,BARC, December 12-16 2005. Mumbai. | **2013** |
|  | **Ravi.K,** A Paper on **“Investigations in wear characterization of En-8 steel”** has been selected for presentation at a national conference at Amrita Institute of Technology in May 2003 | **2013** |
|  | **Ravi.K**, Nidheesh, K “**Alternative Energy Sources –Bio Energy”** at a technical paper contest held at MVSR college of Engineering, Hyderabad. | **2013** |

Intellectual Property: Patents/Copyright Tools/Methods/ Processes:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Title | Patent Application No |  |
|  | Safe bird TM | 2069/CHE/2014 |  |
|  | “I-FTR A tool for Automatic Quality check for Shell meshed component | 1376/che/2014 |  |
|  | “smart-fast” A tool for Fastener Creation In FEM | 1638/che/2014 |  |
|  | “Smart CAT”Smart-Cutout Analysis Tool | 1639/che2014 |  |
|  | Ujjwal Bharat” Solar Energy for India |  |  |
|  | “Thriwaha" An Innovative Wheel Chair design for a single arm person |  | **2014** |
|  | “4Motive” An Innovative four wheel driven wheel chair for single arm person |  | **2014** |
|  | Smart-Sizer-A tool for Automatic aircraft structural sizing |  | **2013** |
|  | Stress analysis without meshing |  | **2014** |
|  | “Smart-Mat” A tool for Fastener hole modelling in FEM |  | **2014** |
|  | “i-concentrate” A tool for Automatic stress concentration estimation of plate |  | **2013** |
|  | “Smart Load”A load case Reduction for Aero structures Analysis |  | **2013** |
|  | “Josh” A Two seated car for Urban India |  | **2013** |
|  | “Vihanga”Micro Air Vehicle |  | **2014** |
|  | “Smart-BAT” Bracket Analysis Tool structural |  | **2014** |

Awards/Rewards/Appreciation

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| --- | --- | --- | --- |
|  |  |  | Year |
|  |  | Shortlisted for Mahindra rise prize challenge | 2014 |
|  |  | Innovator of the year world innovation congress | 2014 |
|  |  | Best designs Challenge 2013 global InfoTech challenge | 2014 |
|  |  | Innovation Award for Idea Contest Aero PDU 2013 | 2013 |
|  |  | Team of the Month, Inboard flap Design & Analysis ISO Audit | 2013 |
|  |  | Selected for CII India Innovation Initiative i3 regional fair, Confederation of Indian Industries, Recycling of Metal Scrap | 2013 |
|  |  | Most Dowloaded article in Google in Nuclear Engineering | 2012 |
|  |  | Best Paper Award in ANSYS India 2013 Regional Users Conference Bangalore july 2013 | 2013 |
|  |  | Awarded **Pat on Back** by Vice- President Aero PDU, Infotech Enterprises Ltd Hyderabad for SIGNIFICANT EFFORTS & TIME SPENT FOR RECRUITING EXPERIENCE STRESS ANALYSIS ENGINEERS | **2013** |
|  |  | Awarded **Pat on Back** by Vice-President, Infotech Enterprises Ltd, Hyderabad for Guiding students for Projects | **2013** |
|  |  | Awarded **AERB Fellowship**, AERB India | **2005** |

Technical Skills

Analysis Tools ANSYS, Abacus, Nastran, Patran,LS DYNA

Management Tools: Microsoft Project Professional, PMP (undergoing)

Computational Tools: ANSYS, LS-DYNA, ABAQUS, FLUENT & GAMBIT, Nastran,Patron,

Programming Tools: MATLAB, FORTRAN, C, MathCAD

Certifications: Best Quality Audit System