• B/42, ASHRAY SOCIETY • NANDELAV ROAD •

• NEAR NARMADA ALUMINIUM FACTORY • BHOLAV •

• BHARUCH – 392 001 • GUJARAT • INDIA

• MOBILE 094279 48520 • E-MAIL hittesh.k.solanki@gmail.com •

GU1#KLWHVK#NLVKRUEKDL#VRODQNL# OBJECTIVE

To be a self-motivated next generation leader with the ability to adapt to rapidly changing technologies and environments with a strong desire to undertake challenging jobs and to work with the team to achieve the goals of an organization.

DATE OF BIRTH

16 th	June,	1980
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NATIONALITY

Indian

GENDER

Male

MARITAL STATUS

Married

LANGUAGES

English, Hindi & Gujarati

EDUCATION

- Doctorate of Philosophy from Charotar University of Science and Technology, Changa in 2018 (Deemed University).
- Master of Engineering from Sardar Vallabhbhai National Institute of Technology, Surat in 2004 (Deemed University) at 65.51%.
- Bachelor of Engineering from South Gujarat University, Surat in 2001 at 59.57 %.

- Worked as a Visiting Lecturer in Mechanical Engineering Department at Sardar Vallabhbhai National Institute of Technology, Surat. (Deemed University) from 28th January 2004 to 9th January 2005.
- Worked as a Teaching Assistant in Mechanical Engineering Department at Sardar Vallabhbhai National Institute of Technology, Surat. (Deemed University) from 10th January, 2005 to 31st May 2006.
- Worked as a Lecturer in Mechanical Engineering Department at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari from 1st June, 2006 to 5th August, 2010.
- Worked as a I/c Training & Placement Officer at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari from 1st June, 2007 to 5th August, 2010.
- Worked as an Assistant Professor as well as Head of Department in Mechanical Engineering Department in Laxmi Institute of Technology (LIT), Sarigam from 7th August, 2010 to 5th May, 2011.
- Worked as an Assistant Professor in Mechanical Engineering Department in Government Engineering College (GEC), Bharuch from 6th May, 2011 to 23rd April, 2025.
- Working as an Associate Professor in Mechanical Engineering Department in Government Engineering College (GEC), Valsad from 24th April, 2025 to till date.

PROJECT GUIDE

- Experimental Study of Design & Development of Magnetic Suspension (Year 2007 – 08).
- Design & Development of Special Purpose Vice (Year 2007 08).
- Experimental Analysis to Determine the Variation in Efficiency of A 2 – Stroke Petrol Engine While Increasing the Inlet Air Temperature (Year 2008 – 09).
- Electricity Generation through Gear and Door Mechanism (Year

2008 - 09).

- Check the Variation of Efficiency of a Two-Stroke Petrol Engine by Increasing Inlet Air Temperature as Well as Change the Size of Tube of Heat Exchanger (Year 2009 – 10).
- Design, Development and Experimental Analysis of Magnetic Disc Braking System (Year 2009 – 10).

DISSERTATION

 Analytical and Experimental Investigations on Gilkes GT 85/2 Twin Shaft Gas Turbine Engine Using Kerosene and Kerosene-Ethanol Blends as Fuel

THESIS

 Design, Numerical Simulation, Development and Experimental Investigations on Rich Burn Quick Mix Lean Burn (RQL) Combustor Using Hydrogen as Fuel for Small Gas Turbine Applications

EXPERT LECTURE DELIVERED

- Expert lecture on the title "Energy Scenario of India", on 3rd June, 2019 in Two-week STTP programme on Recent Trend in IC Engine held at GEC, Bharuch during 3rd 15th June, 2019.
- Expert lecture on the title "Micro Combustion Using Hydrogen as a Fuel", on 4th June, 2019 in Two-week STTP programme on Recent Trend in IC Engine held at GEC, Bharuch during 3rd – 15th June, 2019.
- Expert lecture on the title "Basic Thermodynamic Cycle for SI/CI/GTE", on 6th June, 2019 in Two-week STTP programme on Recent Trend in IC Engine held at GEC, Bharuch during 3rd 15th June, 2019.
- Expert lecture on the title "Emission audit in industry A recent approach", on 12th June, 2019 in Two-week STTP programme on Recent Trend in IC Engine held at GEC, Bharuch during 3rd 15th June, 2019.

ADMINISTRATIVE ACTIVITIES

• Member of examination committee in the end-semester at Sardar Vallabhbhai National Institute of Technology, Surat. (Deemed University) during the April – May 2006.

 Act as a GTU Co-coordinator, Act as an ACPC Nodal, Act as a Member of Student Section, Act as a Member of NBA Committee at Government Engineering College, Bharuch.

ACADEMIC ACTIVITIES

- Member of Reception Committee at Specialized Workshop on Measurement Techniques in Turbomachines, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd – 25th June, 2005.
- Member of Finance Committee at Specialized Workshop on Measurement Techniques in Turbomachines, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd – 25th June, 2005.
- Member of Accommodation Committee at Specialized Workshop on Measurement Techniques in Turbomachines, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd – 25th June, 2005.
- Member of Stage Committee at Specialized Workshop on Measurement Techniques in Turbomachines, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd – 25th June, 2005.
- Member of Food Committee at Specialized Workshop on Measurement Techniques in Turbomachines, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd – 25th June, 2005.
- Member of Coordination Committee at One-Day Seminar on Importance and Relevance of Ph. D. in Technical Education, Organized by ISTE SVNIT CHAPTER, Surat Held on 3rd December, 2005.
- Member of Food Committee at National Workshop on Different Aspects of Electron Microscopy, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 29th – 31st March, 2006.
- Member of Stage Committee at National Workshop on Different Aspects of Electron Microscopy, Organized by

Mechanical Engineering Department of S. V. National Institute of Technology, Surat during **29**th – **31**st March, **2006**.

- Member of Accommodation Committee at National Workshop on Different Aspects of Electron Microscopy, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 29th – 31st March, 2006.
- Member of Reception Committee at National Workshop on Different Aspects of Electron Microscopy, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 29th – 31st March, 2006.
- Member of Finance Committee at National Workshop on Different Aspects of Electron Microscopy, Organized by Mechani0cal Engineering Department of S. V. National Institute of Technology, Surat during 29th – 31st March, 2006.
- Member of Finance Committee at International Workshop on Advanced Analytical Techniques for Material Characterization, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 8th – 10th June, 2006.
- Member of Stage Committee at International Workshop on Advanced Analytical Techniques for Material Characterization, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 8th – 10th June, 2006.
- Member of Food Committee at International Workshop on Advanced Analytical Techniques for Material Characterization, Organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 8th – 10th June, 2006.
- Act as an Organizer at College Level Technical Symposium Entitled "Ignition' 07 – The Spark of Your Future" Organized by SAE Collegiate Chapter, Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari during 2nd – 3rd August, 2007.
- Act as an Organizer at State Level Technical Symposium

Entitled "Eklavya' 08 – The Perfect Aim" Organized at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari, during 13th – 14th March, 2008.

- Act as an Organizer at Three-day workshop Entitled "Intelligent Robotics & Image Processing" Jointly Organized by Nex – Robotics Pvt. Ltd. & Mahatma Gandhi Institute of Technical Education & Research Centre at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari, during 14th – 16th November, 2008.
- Act as an Organizer at Two-week Short-Term Training Programme Entitled "Recent Trent in IC Engine" Under the banner of DTE, Gandhinagar & ISTE, New Delhi and under the financial guidance of GUJCOST, Gandhinagar during 3rd – 15th June, 2019.

WORKSHOPS/SEMINARS/SUMMER SCHOOLS ATTENDED

- Attended a three-day workshop on "Specialized Workshop on Measurement Techniques in Turbomachines" organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat during 23rd June, 2005 to 25th June, 2005.
- Attended a two-day workshop on "Baja SAE India Vehicle Design Workshop" organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat on 23rd December, 2006.
- Attended AICTE approved two-week training on "Induction Training Programme" organized by National Institute of Technical Teachers' Training & Research, Chandigarh at United College of Engineering & Research, Allahabad during 2nd January, 2008 to 12th January, 2008.
- Attended a three-day Lecture Series on "Generalized Laws of Mass, Momentum & Energy Conservation" organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat on 6th February, 2008 to 8th February, 2008.
- Attended a three-day National Conference on "Advances in

Fluid Flow & Thermal Sciences" organized by Mechanical Engineering Department of S. V. National Institute of Technology, Surat on 22nd May, 2008 to 24th May, 2008.

- Attended AICTE approved one-week Short Term Training Programme on "Computational Fluid Dynamics – Basic & Applications" organized by Mechanical Engineering Department at SVNIT, Surat, during 7th July, 2008 to 11th July, 2008.
- Attended a two-day workshop Entitled "Intelligent Robotics" Jointly Organized by Nex – Robotics Pvt. Ltd. & Mahatma Gandhi Institute of Technical Education & Research Centre at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari, during 14th November, 2008 to 15th November, 2008.
- Attended a one-day workshop Entitled "Image Processing" Jointly Organized by Nex – Robotics Pvt. Ltd. & Mahatma Gandhi Institute of Technical Education & Research Centre at Mahatma Gandhi Institute of Technical Education & Research Centre (MGITER), Navsari, during 16th November, 2008.
- Attended AICTE sponsored one-week Short Term Training Programme on "Advanced Engineering Optimization through Intelligent Techniques" organized by Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat during 22nd December, 2008 to 26th December, 2008.
- Attended MHRD sponsored two-week Short-Term Training Programme on "Induction Training Phase - I" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 19th August, 2013 to 30th August, 2013.
- Attended Education Department, Government of Gujarat sponsored three-day Short-Term Training Programme on "Karmayogi Residential Training for Quality Improvement Programme in Technical Education" organized by Commissionerate of Technical Education during

6th December, 2013 to 8th December, 2013.

- Attended MHRD sponsored two-week Short-Term Training Programme on "Fluid Mechanics" conducted by Indian Institute of Technology (IIT), Kharagpur organized by Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat during 20th May, 2014 to 30th May, 2014.
- Attended MHRD sponsored one-week Short-Term Training Programme on "Master Cam for Faculty of Mechanical Engineering" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 2nd February, 2015 to 6th February, 2015.
- Attended GUJCOST & GEDA sponsored CTE & ISTE approved one-week Short-Term Training Programme on "Modern Trends in Renewable Energy" organized by Government Engineering College, Bharuch during 2nd November, 2015 to 6th November, 2015.
- Attended MHRD sponsored two-week Short-Term Training Programme on "Induction Training Programme Phase -II" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 14th December, 2015 to 25th December, 2015.
- Attended MHRD sponsored one-week Short-Term Training Programme on "Developing Entrepreneurship Skills in Students" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 4th January, 2016 to 8th January, 2016.
- Attended MHRD sponsored two-week Short-Term Training Programme on "3D Animation" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 27th June, 2016 to 8th July, 2016.
- Attended QIP one-week Short Term Training Programme on "Advances in Theory and Design of Turbomachines" organized by Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat during 7th November, 2016 to 12th November, 2016.

- Attended MHRD sponsored two-week Short-Term Training Programme on "Organizational Effectiveness" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 4th September, 2017 to 15th September, 2017.
- Attended MHRD sponsored one-week Short-Term Training Programme on "Develop Laboratory Experiments for Outcome Based Curriculum" organized by National Institute of Technical Teachers' Training and Research, Bhopal during 25th June, 2018 to 29th July, 2018.
- Attended GUJCOST sponsored CTE & ISTE approved twoweek Short-Term Training Programme on "Recent Trend in IC Engine" organized by Government Engineering College, Bharuch during 3rd June, 2019 to 15th June, 2019.

PROFESSIONAL MEMBERSHIP

- Life Member of the Indian Society for Technical Education since 17th February, 2009. Membership Number: LM 61217.
- Associate Member of the Institution of Engineers (India) since 17th March, 2009. Membership Number: AM097111 – 4.
- Associate Member of Society of Automotive Engineers from December 2006 to December 2007. Membership Number: 7007510021.

COMPUTER KNOWLEDGE

- Operating Systems
- MS Office
- Ansys
- Auto-cad

RESEARCH PAPERS

NATIONAL CONFERENCE

Digvijay B. Kulsheshtra, Hitesh K. Solanki & Zoeb K. Lakdawala, "Development of Electric & Hybrid Electric Vehicles," Presented & Published in National Conference on Energy and Fuel, Pune Institute of Engineering & Technology, Pune, 2004, 5th – 6th November, 2004, Paper Id

93.

- Sohel M. Panwala, Zoeb K. Lakdawala & Hitesh K. Solanki, "Hydrogen Storage in Metal Hydride for Hydrogen Fueled I.C. Engine," Presented in National Level Technical Paper Presentation Competition, Kadi (Gujarat), NLTPPC – 2005, 8th – 9th January, 2005.
- Digvijay B. Kulshreshtha, Hitesh K. Solanki & Zoeb K. Lakdawala, "Modeling of Gas Turbine Combustion Chamber for Design: The Applications & Preliminary Investigations," Presented in National Level Technical Paper Presentation Competition, Kadi (Gujarat), NLTPPC 2005, 8th 9th January, 2005.
- Rekh V. Viranchi, Zoeb K. Lakdawala, Hiteh K. Solanki, "Comparative Assessment on Break Thermal Efficiency of Multi-cylinder Engine Using Petrol, Liquefied Petroleum Gas & Compressed Natural Gas as Fuels at Different Load Conditions," Published in 19th National Conference on I.C. Engines & Combustion, Department of Mechanical Engineering, Annamalai University, Annamalainager, 21st – 23rd December, 2005.
- Digvijay B. Kulshreshtha, Dr. S. A. Channiwala, Hitesh K. Solanki & Zoeb K. Lakdawala, "Design Philosophies of the Annular Type Combustion Chamber for Gas Turbine Engine", to be published at National Conference on Advances in Mechanical Engineering, All India Institute of Mechanical Engineering (AIME) 2006, Jamia Millia Islamia, New Delhi, 20th 21st January, 2006, Paper Id TH 53.
- Hitesh K. Solanki & Dr. S. A. Channiwala, "Emission in Gas Turbine Engine: The Constituents & Its Effect on Atmosphere", to be published at National Conference on Advances in Mechanical Engineering, All India Institute of Mechanical Engineering (AIME) – 2006, Jamia Millia Islamia, New Delhi, 20th – 21st January, 2006, Paper Id – TH – 49.
- A. D. Parekh, Dr. S. A. Channiwala & Hitesh K. Solanki,
 "Energy & Exergy Analysis of Captive Power Plant" to be published at Proceedings of the National Conference on Advances in Mechanical Engineering 2006 (ECKAME –

2006) **18th – 19th March 2006**, Kota (Rajasthan), Paper Id – ECKAME – 2006 – T – 15.

- Rekh V. Viranchi, Zoeb K. Lakdawala, Hiteh K. Solanki, Digvijay B. Kulshreshtha "Comparative Assessment on Multi-cylinder Engine Using Petrol, Liquefied Petroleum Gas & Compressed Natural Gas as Fuel at Various Speed/Load Conditions," to be published at National Conference on Advances in Mechanical Engineering, All India Institute of Mechanical Engineering (AIME) – 2006, Jamia Millia Islamia, New Delhi, 20th – 21st January, 2006, Paper Id – TH – 52.
- Nilesh R. Sheth & Hitesh K. Solanki, "Benchmarking An Overview & Process", to be presented in All India Seminar on Organizational Excellence for Globe Competitiveness Quality Edge 2008 at Yeshwantrao Chavan College of Engineering, Nagpur, 19th – 20th January, 2008.
- Hitesh K. Solanki & Dr. S. A. Channiwala, "Fuel Cell & Its Working Challenges" to be presented in National Conference on Advances in Fluid Flow & Thermal Sciences (AFFTS – 2008), Department of Mechanical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, 22nd – 24th May, 2008, Paper Id – AFFTS2008–A06.
- Hitesh K. Solanki, "Different Methods to Find Out Adiabatic Flame Temperature and Predicting Pollutants" to be presented in National Conference on Thermal, Fluid and Manufacturing Science (TFMS – 2012), Department of Mechanical Engineering, C. K. Pithawala College of Engineering & Technology, Surat, 20nd – 21th Jan, 2012, Paper Id – TFMS2012-0406.
- Hitesh K. Solanki, "To Check the Variation in Efficiency of the 2 – Stroke Engine While Increasing In Inlet Air Temperature" to be presented in National Conference on Thermal, Fluid and Manufacturing Science (TFMS – 2012), Department of Mechanical Engineering, C. K. Pithawala College of Engineering & Technology, Surat, 20nd – 21th Jan, 2012, Paper Id – TFMS2012-0906.
- Hitesh K. Solanki & Dr. D. B. Kulshreshtha, "Thermo

acoustic in Gas Turbine Combustion Chambers" to be presented in 2nd National Conference on Thermal, Fluid and Manufacturing Science (TFMS – 2014), Department of Mechanical Engineering, C. K. Pithawala College of Engineering & Technology, Surat, 24th – 25th January, **2014**, Paper Id – 2014TFMS1604.

INTERNATIONAL CONFERENCE

- Hitesh K. Solanki & Dr. S. A. Channiwala, "Theoretical Study of Emission Characteristics of Kerosene Type Fuel for Small Gas Turbine" Proceedings of the International Conference on Mechanical Engineering 2005 (ICME2005) , Dhaka, Bangladesh, 28th – 30th December, 2005, Paper Id – ICME2005 – 061.
- Digvijay B. Kulshreshtha, Dr. S. A. Channiwala, Jitendra Chaudhary, Hitesh K. Solanki & Zoeb K. Lakdawala, "Effect of Divergence Angle on Flow Through Diffuser of A Gas Turbine Combustor: A CFD Approach" Published in The American Society of Mechanical Engineers (ASME) Joint US European Fluid Engineering Summer Meeting, Miami Florida, US, 17th – 20th July, 2006, Paper Id – FEDSM2006 – 98062.
- Hitesh К. Solanki & Dr. S. А. Channiwala, "Thermodynamic Equilibrium Model of Emission Levels of Small Gas Turbine Engine Using Kerosene Ethanol Blends" Presented & Published in Proceedings of IMECE2006, 2006 ASME International Mechanical Engineering Congress and Exposition, Chicago, Illinois, USA, 5th –10th November, 2006, Paper Id – IMECE2006 –13195
- Hitesh K. Solanki & Dr. S. A. Channiwala, "Experimental Investigation on Emission Characteristics of Kerosene-Ethanol Blends Type Fuel in Small Gas Turbine Engine Gilkes GT 85/2" Presented & Published in Proceedings of IMECE2006, 2006 ASME International Mechanical Engineering Congress and Exposition, Chicago, Illinois, USA, 5th-10th November, 2006, Paper Id – IMECE2006 –13196.

NATIONAL JOURNAL

 Hitesh K. Solanki & Dr. D. B. Kulshreshtha, "Numerical Simulations of Rich Burn Quick Mix Lean Combustor" Published in Indian Journal of Science and Technology, May, 2017, Paper Id – 112544, Volume – 10, Issue - 19.

PATENT

 Hitesh K. Solanki & Dr. D. B. Kulshreshtha, "Rich Burn Quick Quench Lean Burn Combustor of Annular Configuration with Variable Cross-Section Primary Reaction Region", filled at Patent Application Publication, India dated 23rd April, 2017, The Patent Office Journal Issue No. 18/2017, Application No. 201721014369, date of publication: 5th May, 2017.

REFERENCES

 Dr. S. A. Channiwala Rtd-Professor, Mechanical Engineering Department, S. V. National Institute of Technology, Surat – 395 007.
 Dr. Digvijay B. Kulshreshtha Associate Professor, Mechanical Engineering Department, C. K. Pithawala College of Engineering and Technology, Surat – 395 007.

Date: 03rd May, 2025 Place: Bharuch

Dr. Hitesh K Solanki