BIO DATA

Dr. NIXON KURUVILA, BE., M.Tech., Ph.D

Deputy Director & Controller of Examinations,

Sahrdaya Autonomous University

Member in Board of Studies, APJ Abdul Kalam Technological University

KOLAPRAN HOUSE, KODAKARA P.O,

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CAREER OBJECTIVE

- To lead and support the development of strong educational and research systems by using my 20+ years of experience in academic leadership, curriculum design, and institutional growth.
- To create a learning environment that connects well with global and industry needs through work
 in advanced manufacturing, digital technologies, and partnerships between academia and industry.
- To inspire and empower students through impactful teaching and personalized mentoring, nurturing innovation, creativity, and lifelong learning among aspiring professionals.

PROFESSIONAL SKILLS

- Academic Leadership & Autonomy: Led institutional transformation securing UGC-autonomous status, NAAC reaccreditation, and NBA outcomes; drove strategy, compliance, and academic excellence.
- Curriculum Innovation & Policy: Designed outcome-based, industry-integrated curricula; contributed to state university reforms embedding AI, IoT, and entrepreneurial learning.
- Research Infrastructure Development: Established AICTE-funded IDEA Lab to advance digital fabrication and interdisciplinary innovation in line with global priorities in high-value manufacturing.
- **Startup & Innovation Ecosystem Building**: Founded institutional TBI, mentoring high-impact startups and translating academic research to market through grants and incubation.
- Industry-Academic Collaboration: Built Centres of Excellence with GE Healthcare, Agappe, Intel, DELL, and Google, delivering employability-linked innovation training.
- EdTech & Digital Learning Systems: Integrated LMS, virtual labs, and learning analytics to support blended, scalable, and data-driven academic delivery.
- **Faculty Development & Team Leadership**: Recruited, trained, and empowered faculty teams for academic innovation and research productivity through strategic mentoring.
- Experiential & Project-Based Pedagogy: Institutionalized PBL across programs to develop applied

skills, interdisciplinary problem solving, and job readiness.

- **Resource Mobilization**: Secured public grants and private partnerships to expand infrastructure and sustainability of academic innovation programs.
- **Student-Centric Mentorship**: Known for accessible, empathetic leadership—guiding student aspirations in research, careers, and entrepreneurship.

ACADEMIC QUALIFICATIONS

• Ph.D – MECHANICAL ENGINEERING (2011)

Visvesvaraya Technological University, Belgaum, Karnataka, India.

• M.Tech – COMPUTER INTEGRATED MANUFACTURING (2002)

Visvesvaraya Technological University, Belgaum, Karnataka, India.

• B.E – MECHANICAL ENGINEERING (1999)

University of Mysore, Karnataka, India.

PROFESSIONAL EXPERIENCE

Sl.No	Designation	Institution / University	Duration
1.	Deputy Director & Controller of Examinations	Sahrdaya Autonomous University	April 2025 - till date
2.	Principal	Sahrdaya Autonomous University	Jan 2017 -April 2025
3.	Member - Board of Studies Engineering (PG)	APJ Abdul Kalam Technological University	2024-till date
4.	Member - Board of Studies (Research)	APJ Abdul Kalam Technological University	2021-2024
5.	Member, Curriculum Review Committee	APJ Abdul Kalam Technological University	2016 onwards
6.	Professor & Vice Principal	Sahrdaya Autonomous University	2012 -2016
7.	Associate Professor & HOD	Sahrdaya Autonomous University	2010-2012
8.	Senior Lecturer	Sahrdaya Autonomous University	2008-2010
9.	Lecturer	Sahrdaya Autonomous University	2001-2008
10.	Teaching Assistant	PES College of Engineering, Mysore	1999-2001

AWARDS RECEIVED/ ACHIEVEMENTS ATTAINED

- Received Prestigious "SADGURU AWARD" (Excellent faculty award) by the University of Calicut, Kerala, India.
- Received the "Outstanding Educator & Administrator Award" from National Foundation for Entrepreneurship Development (NFED) India, 2025.
- "Excellent Faculty Award" of Sahrdaya Autonomous University. This award was granted based on academic excellence for a period of 8 years consecutively.
- Received "Academic Excellence Award 2017" from Junior Chamber International (JCI), India.
- Received "Excellent Academician Award 2018" by Kodakara Panchayat, Thrissur, Kerala, India.
- Certificate of Recognition Awarded to Nixon Kuruvila for serving as Session Chair in oral and technical presentations at ICAMAME 2015: 17th International Conference on Aerospace, Mechanical, Automotive, and Materials Engineering, Berlin, Germany, in recognition and appreciation of research contributions.

UNIQUE LEADERSHIP ACCOMPLISHMENTS

- Secured a project from the All India Council for Technical Education (AICTE), Government of India, worth Rs. 1 crore 10 lakhs to establish the AICTE IDEA Lab at Sahrdaya Autonomous University and Technology, aimed at becoming a world-class center for rapid prototyping, digital fabrication, and innovation development and research, based on the proposal presented as a Chief Mentor (January 2025).
- Spearheaded the initiative to establish Sahrdaya Autonomous University as **the first Intel AI Campus in the state**, leading strategic collaboration and national-level recognition in AI education (January 2025).
- Spearheaded the institution's transition to **Academic Autonomy status from the University Grants Commission (UGC)**, Government of India, elevating it from an affiliated status (April 2024).
- Organized India's first Google Artificial Intelligence (AI) Campus Fest at Sahrdaya Autonomous University (September 2023).
- Established the **GE-SAHRDAYA Centre of Excellence for Healthcare Technologies**, the first collaboration of its kind with General Electric in Kerala, advancing innovation in healthcare and research (August 2017).
- Founded Sahrdaya Technology Business Incubator (Sahrdaya TBI) in collaboration with Kerala State Industrial Development Corporation, creating a hub for nurturing technology startups and entrepreneurial ventures (November 2018).
- Launched Sahrdaya-Agappe Innovation Hub, fostering academic-industry collaboration to develop cutting-edge solutions in biotechnology and healthcare (November 2018).
- Organized KETCON-TEKON 2018, a State Innovation Festival in partnership with the Kerala State Council for Science, Technology, and Environment and APJ Abdul Kalam Technological University, showcasing transformative innovations(March 2018).
- Led the "Innovation and Entrepreneurship Development Centre Summit 2019", Asia's largest student entrepreneurship event, engaging over 4,300 participants and promoting a vibrant startup ecosystem (August 2019).

COORDINATOR/ RESPONSIBILITIES /ACADEMIC ASSIGNMENTS

- Member of Board of Studies & Syllabus revision committee in APJ Abdul Kalam Technological University.
- Served as the Institutional Chairman for NAAC and NBA Accreditation, leading strategic planning, documentation, and quality assurance initiatives to ensure continuous academic and institutional improvement.
- Member of Staff Selection Committee in Thyagaraja Polytechnic, Thrissur, Kerala state.
- Approved Research Guide in APJ Abdul Kalam Technological University.
- Spearheaded the Memorandum of Understanding (MoU) between Sahrdaya Autonomous University and WelTec-Whitireia (Porirua Campus), New Zealand, to foster academic collaboration and international engagement.
- Took Initiative to launch the 'The Chanel I'M' initiative at Sahrdaya Autonomous University to inspire innovation and student engagement.
- Invited Expert for setting University Examination Question paper in Cochin University for Science & Technology, Kerala, India.
- Chief Organizer of AICTE and University Faculty Development Programs (FDPs).
- Director of Internal Quality Assurance Cell (IQAC) (2012-2016).
- Chief Organizer of College and University Level Technical Fest Events.
- Committee Head for Digitization of College Campus and Transactions.
- Chaired TedX Sahrdaya CET 2019 & 2024.
- Coordinated "Faculty Bootcamp Workshop" on Design Thinking at Sahrdaya Autonomous University
- Coordinated AICTE-sponsored Faculty Development Programs (FDPs) on "Pedagogy for Online and Blended Teaching-Learning Process", Foundation Program in ICT for Education, and Information and Communication Technologies in Education for Online Learning.
- Instrumental in organizing the Faculty Development Programme on "Vehicle Electrification: Future Mobility Trends," funded by AICTE ATAL.

RESEARCH PUBLICATIONS

- Nixon Kuruvila and Dr. H.V.Ravindra, "Optimization and Influence of Process Parameters for HDS material in Wire EDM", International Conference on Frontiers in Mechanical Engineering, FIME 2016, University of Texas, USA, May 20 22, 2017.
- Nixon Kuruvila and Dr. H.V. Ravindra "Parametric Influence and Optimization of Wire EDM on oil hardened non- shrinking steel", 13th International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, Berlin, Germany, May 21-22, 2015.
- Nixon Kuruvila, Dr. H.V. Ravindra and Dr. Joe Elambasseril "Optimization and Influence of Process Parameters for HDS material in Wire EDM", 7th Australian Congress on Applied Mechanics (ACAM7), The University of Adelaide, Australia, December 9 12, 2012.
- Nixon Kuruvila, Dr. H.V.Ravindra, "Optimization and Influence of Process parameters for Machining
 Oil Hardened Non Shrinking Steel (OHNS) in WEDM" International Journal of Machining and

- Machinability of Materials" Vol.12, No.4, 2012, pp.372 397.
- Nixon Kuruvila, Dr. H.V.Ravindra, "Parametric Influence and Optimization of Wire EDM of Hot Die Steel" International Journal of Machining Science & Technology, Vol. 15, No. 1, 2011, pp. 47 -75.
- Nixon Kuruvila, Dr. H.V Ravindra, "Parametric optimization & Influence of control factors on Hot Die Steel in WEDM process" National Conference on Recent trends in Manufacturing Technology (RTMT 2009), Anna University, Chennai, March 6-7,2009, P-12.
- Nixon Kuruvila, Dr. H.V Ravindra, "Optimization and Influence of Control Factors of Wire Cut EDM Based On Design of Experiments "National Conference on Emerging Trends in Mechanical Engg.(ETIME 2008), BMS College of Engg., Bangalore, Aug. 28 - 29, 2008, P-67.
- Nixon Kuruvila and Dr. H.V. Ravindra," Parametric optimization & Influence of WEDM process on different materials", 2nd International & 23rd All India Manufacturing Technology Design and Research Conference IIT Madras, December 15 17, 2008, PP 489-494.
- Nixon Kuruvila, Manjunatha BB, and Dr.H.V. Ravindra," Parameter Estimation in WEDM using Taguchi's Technique", International Conference on Advances in Manufacturing Engg. (ICAME-2007), Manipal Institute of Technology, Manipal, October 24 26, 2007, P-30.
- Nixon Kuruvila and Dr. H.V. Ravindra, "Estimation of Surface roughness and Dimensional accuracy using process parameters in Wire cut EDM by Artificial Neural Network", International Symposium on Measurement and Quality Control (9th ISMQC), IIT Madras, November 21 24, 2007, PP 380-383.
- Nixon Kuruvila, Govindaraju Nayak H.C, Dr. H.V.Ravindra, "Optimization & Influence of Process Parameters Of WEDM Based on DOE Using Taguchi's Technique" National Conference on Recent Advances in Design Engineering (RADE 2007) Manipal Institute of Technology, Manipal, February 22 – 24, 2007, PP 108-111.
- Nixon Kuruvila, Dr. H.V.Ravindra, "Study of Electrodes used in wire cut EDM" National Conference on Materials for Critical application by Institution of Engineers at Government Engineering College, Thrissur, Kerala, November 3rd 2007, P-58.

GRANTS RECEIVED

- o Granted an amount of **Rs.4,57,000/** from Kerala Development and Innovation Strategic Council under One District One Idea 2022 for the project Cherpu Handicraft Cluster.
- Received an amount of **Rs. 24,00,000/-** from **Kerala Startup Mission** and an amount of Rs. 1,00,000 from South Indian Bank for IEDC Summit 2019.
- Received a financial grant of Rs.3,20,000/- from KSCSTE for "Science Popularisation scheme-2019".
- Received an amount of Rs. 7,00,000/- from Kerala State Council for Science Technology and Environment and an amount of Rs. 7,00,000/- from APJ Abdul Kalam Technological University for KETCON-TEKON 2018.
- Obtained financial grant of **Rs.72000/-** from the **Department of Science and Technology (DST), Govt. of India** for attending and presenting a paper in 7th Australian Congress on Applied Mechanics (ACAM7), The University of Adelaide, Australia, December 9–12, 2012.
- o Instrumental to receive an amount of Rs.15,72,000/- from AICTE under MODROB Scheme.
- A financial grant of Rs. 5,00,000/- has been received from AICTE to organize the Conference on "Molecular Tools and Disease Diagnosis."

ACADEMIC QUALITY ASSURANCE

In addition to regular curricular responsibilities, actively supports academically struggling students through dedicated initiatives. Conceptualized and implemented two support programs – S4S (Students for Students) and T4S (Teachers for Students) – designed to provide structured academic assistance to slow learners beyond the classroom setting.

COUNTRIES VISITED

Towards the Research Collaboration and Faculty Exchange Programme, visits were made to Australia,
 Germany, France, United States, Switzerland, Holland and UAE.

WORKSHOPS AND TRAININGS ATTENDED

- Participated in a National Conference on "Recent trends in Manufacturing Technology" at Anna University, Chennai on 6th and 7th March 2009.
- Participated in the Five day Faculty Development Program on "Al for future workforce" from 15/1/2024 to 19/1/2024.
- Participated in the Faculty Development Program on "Mentor Mentee relationship and Academic Student Mentoring Organized by IQAC in association with ISTE on 24/1/2024.
- Participated in the 3rd International Conference on "Sustainable materials, Manufacturing and Renewable Technologies" (i-SMaRT 2023) organized by the Department of Mechanical Engineering, Federal Institute of Science and Technology on 24-26 May 2023.
- Faculty development program on "Self learning in Education" at Sahrdaya Autonomous University during 25th to 27th April 2016.
- Participated in a National Conference on "Emerging Trends in Mechanical Engineering ETIME" at BMS
 College of Engineering (Autonomous), Bangalore, on 28th & 29th, March, 2008.
- "Strategies to improve Quality in Engineering Education" sponsored by AICTE-ISTE conducted at Bannari Amman Institute of Science & Technology, Sathyamangalam, Tamil Nadu from May 24 to 29, 2004.
- "Teaching Skills to be developed in Engg. Education" sponsored by AICTE-ISTE conducted at St. Joseph's College of Engg., and Technology, Pala from 13 to 13, February 2019.
- Faculty Development Programme", Sahrdaya Autonomous University, 25th March 2017.
- Faculty Development Programme on Design Thinking", Sahrdaya Autonomous University, 28th and 29th Dec 2017.
- "BioMass Power" sponsored AICTE-ISTE conducted at P.E.S.C.E, Mandya.
- Faculty development program on "Placement Possibilities & Research Methodologies" at Sahrdaya Autonomous University during 25th April 2015.
- Faculty development program on "Blueprint for professional and personal growth" at Sahrdaya Autonomous University during 12th December 2015
- "Advanced Manufacturing Technology' conducted at IIT, Chennai.
- Faculty development program on "Orientation Programme by Xavier board of higher Education" at Sahrdaya Autonomous University during 26th March 2011.
- Faculty development program on "Educational Psychology" at Sahrdaya Autonomous University

- during 16th October 2013.
- Faculty development program on "Education beyond curriculum" at Christ University, Bangalore during 16 to 18 November, 2013.
- Faculty development program on "Objects in mirror are closer than you think" at Sahrdaya Autonomous University during 25th March 2017.
- Participated in AutoDesk Education Summit 2015 on 6th August 2015 at ITC Grand Central, Mumbai.
- Faculty development program on "Introduction to Vocology, Research Methodology" at Sahrdaya Autonomous University during 29th April 2017.
- Faculty development program on "Foundation program in ICT" at Sahrdaya Autonomous University during 3rd August to 7th September 2017.
- "Faculty Development Programme", Sahrdaya Autonomous University, 27th December 2016.

INVITED TALKS/PAPER PRESENTATIONS/CONFERENCES CHAIRED

- Presented a paper titled "Optimization and Influence of Process Parameters for HDS material in Wire EDM", in 7th Australian Congress on Applied Mechanics at The University of Adelaide, Australia, on December 9, 2012.
- Presented a paper titled "Optimization and Influence of Process Parameters for HDS material in Wire EDM" in an International Conference on Frontiers in Mechanical Engineering, at University of Texas, USA on May 20, 2017.
- Presented a paper titled "Parametric Influence and Optimization of Wire EDM on oil hardened nonshrinking steel" in an International Conference on "Aerospace, Mechanical, Automotive and Materials Engineering at Berlin, Germany on May 21, 2015.
- Presented a paper titled "Optimization and Influence of Process Parameters for HDS material in Wire EDM", in an International Conference on "Frontiers in Mechanical Engineering "FIME - 2010 at National Institute of Technology, Karnataka, India on May 20, 2010.
- Presented a paper "Parametric optimization & Influence of WEDM process on different materials", in 2nd International & 23rd All India Manufacturing Technology Design and Research Conference at IIT Madras, on 15 December, 2008.
- Presented a paper titled "Parameter Estimation in WEDM using Taguchi's Technique", in an International Conference on "Advances in Manufacturing Engineering" at Manipal Institute of Technology, Manipal, on October 25, 2007.
- Presented a paper titled "Optimization and Influence of Control Factors of Wire Cut EDM Based On Design of Experiments" in a National Conference on Emerging Trends in Mechanical Engineering, BMS College of Engg, Bangalore on August 28, 2008.
- Presented a paper titled "Estimation of Surface roughness and Dimensional accuracy using process parameters in Wire cut EDM by Artificial Neural Network", in an International Symposium on "Measurement and Quality Control" at IIT Madras, on November 22, 2007.
- Presented a paper titled "Optimization & Influence of Process Parameters Of WEDM Based on DOE Using Taguchi's Technique" in a National Conference on "Recent Advances in Design Engineering" at Manipal Institute of Technology, Manipal, on February 22, 2007.
- Presented a paper titled "Study of Electrodes used in wire cut EDM" in a National Conference on "Materials for Critical application" by Institution of Engineers at Government Engineering College, Thrissur, Kerala, on November 3, 2007.
- Chaired International Conference on Aerospace, Mechanical, Automotive and Materials Engineering,

- Berlin, Germany, May 21-22, 2015.
- Delivered Presidential Address for the three Day FDP, "Fundamentals of Project Guidance: Embedded
 & Signal Processing at Sahrdaya Autonomous University from 4th to 6th July 2018.
- Delivered presidential Address in KTU Sponsored Faculty Development Program on "DSP and its Applications" at Sahrdaya Autonomous University from 25th to 27th July 2019.
- Delivered Presidential Address in International Conference on "Perceptions in Biomedical Engineering and Affordable Healthcare Technologies" on 13th to 14th May 2019.
- Resource person for various Faculty Development/Orientation Programmes.

SHAPING YOUNG MINDS IN CREATIVITY AND TECHNOLOGY

Delivered expert talks to school students, inspiring innovation, future technologies, and creativity from a young age through various sessions across institutions.

- Addressed students of Saraswathy Vidyanikethan Central School, Chalakudy, Kerala, on "Innovation and Future Technologies" on June 5, 2023.
- Engaged with students of Sacred Heart School, Chalakudy, fostering "Curiosity in Emerging Technologies" on April 4, 2023.
- Delivered a session for students and teachers of St. Antony's Senior Secondary School, Puthenvelikkara on "Creativity and Technological Advancements" on January 4, 2023.
- Spoke at the Metaverse Symposium organized by the ICT Academy of Kerala in Cochin, sharing insights on the "future of virtual environments" on October 5, 2022.
- Conducted an expert session at St. John's Public School, Parappukkara, inspiring young minds toward Innovation on September 24, 2022.
- Addressed students of Crescent Public School, Chalakudy highlighting the significance of Technology and Creative Thinking on August 16, 2022.
- Delivered a session on "Robot Kinematics and dynamics" for the teachers and students of KVUPS school Manakulangara, Thrissur, Kerala state on June 2, 2018.
- Addressed students of Crescent Public School, Chalakudy on "Non traditional Machining process" on July 14, 2018.
- Delivered a talk on "Generative AI" at K.Karunakaran memorial polytechnic, Kallettumkara, Thrissur on 17 November, 2024.
- Delivered expert Talk on "New Education Policy-NEP 2020" at CMI Public School, Chalakudy, Kerala on 23 February, 2025.
- Delivered a session for St.John's public School, Parapukkara on "Al in Everyday Life" on June 23, 2024.

RESEARCH GUIDANCE

An approved PhD Research Guide of APJAKTU, actively involved in UG/PG level research guidance. Many of the students under guidance received various innovation awards as well as a number of research publications.

CURRICULUM THESIS WORKS

- **Ph.D:** Optimization and Influence of Process Parameters on various steel materials in WEDM.
- M.Tech: Condition Monitoring in Tyre Industry, Case Studies completed at Apollo Tyres, Thrissur.
- **B.E:** A study on QS –9000(Quality System 9000) done at Automotive Axles Ltd. Mysore.

PROFESSIONAL MEMBERSHIP

- Member of IEEE (Membership Number : 100129733)
- Life Member of Indian Society of Technical Education (ISTE)
- Life member of Institution of Engineers.

ACADEMIC MENTORSHIP TO INTERNATIONAL ENTERPRISE

Demonstrating a sustained commitment to student and faculty entrepreneurship, I co-founded Flora Extracts LLC—a natural product innovation company headquartered in the United States—together with my former student, Mr. Anto Kundukulam. This venture exemplifies how academic mentorship can evolve into a successful and impactful international enterprise.

EXTRA CURRICULAR ACTIVITIES

- Professional performing proficiency in Vocal light Music.
- First prize winner for light music (solo) in the State Level youth festival Competition conducted at Alappuzha in 1992 and various other prizes for similar competitions held in Sub District, District and State level Competitions.
- I have been actively involved in the music ministry of my parish for over 35 years, serving as the leader of the church choir and contributing to the spiritual and musical life of the community.
- Performed as a vocalist on numerous Christian devotional albums and contributed vocal tracks for film songs.

SOCIAL SERVICES RENDERED

Housing Initiative (2018-Present)

- In 2018, I initiated the Sahrdayam Housing Initiative, a philanthropic project aimed at providing homes
 for underprivileged families. Under this initiative, four houses have been successfully constructed and
 handed over to beneficiaries, with the most recent completion in 2024, under the project titled
 "Sahrdayam 2024." This endeavor reflects my commitment to social responsibility and community
 development.
- Played a pivotal role in organizing and coordinating flood relief activities within the panchayat and district during the devastating Kerala floods of 2018 and 2019.
- Undertook cleaning Mission at KSRTC Thrissur as a part of observing World Environment Day.
- Frequently conducted Hospital Cleaning work at Different Locations.
- Coordinated Yoga and Meditation Programme for the students and Faculty Members.
- Raised Fund for Renal Problematic Patients as a philanthropist.

- Coordinated Road safety awareness rally among the public.
- Conducted Women day orientation programmes.
- Organised Blood Donation Camp at Sahrdaya Autonomous University

AREAS OF INTEREST

- Non Traditional Machining
- Advanced Manufacturing
- Wire-Electro discharge Machining
- Non Destructive Testing
- Surface Treatment and Finishing
- Internal Combustion Engines
- Engineering Design & Drawing
- Packages: MS Office
- Operating Systems: Windows 10,11, Linux, MacOS
- AutoCAD, Solid edge

PERSONAL PROFILE

Date of Birth: 2nd February, 1976

Marital Status: Married

Religion: Roman Catholic Syrian Christian
Passport Number: C9922169(DOE:16/04/2035)
B-2 Visa Holder (United States): M0987267

Languages Known: English, Hindi, Malayalam, Tamil, Kannada

REFERENCES

1. Dr. Ciza Thomas

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Phone: +91 94962 04380

2. Dr. Joe Elambasseril

Senior Research Fellow School of Engineering, City Campus RMIT University, Australia Email: joe.elamb@gmail.com

Phone: +61 420 844 669

DECLARATION

I hereby declare that the information furnished in this resume is true to the best of my knowledge and belief.

Date: 20-05-2025

Place: Thrissur

Dr. Nixon Kuruvila