



BRIEF BIO-DATA

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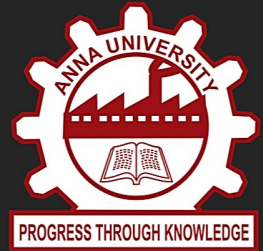
Dr. K. Senthil Kumar

Recipient of A.P.J. Abdul Kalam Award, Govt of TN - 2018

Recipient of Best Drone Architecture Award, IAF - 2021

Recipient of Innovation Award, CTD Anna University - 2021

Professor & Director,
Dr. Kalam Advanced UAV Research Centre,
Centre for Aerospace Research,
Department of Aerospace Engineering,
MIT Campus, Anna University,
Chennai 600044



Professor Senthil Kumar, an outstanding technocrat has distinguished himself as a pioneer in the Indian UAV scene. He has made possible the Lab to field research contribution, especially from Universities, in the field of Unmanned Aerial Systems popularly called as Drones. The concept to translational research to end user capabilities of his UAV research had been vouched by various topmost civilian and military authorities in India and worldwide, notable being his Excellency our former President Dr APJ Abdul Kalam and DARPA, Department of Defense USA.

Dr Senthil Kumar may best be described as an Educator and Entrepreneurial Scientist who with his practical mentoring approach to science had been able to identify and bring forth creative energies out of budding engineers and thereby making them innovators and potential leaders they are, in the field of Aerospace Engineering. The exceptionally Innovative Researcher and Educator, that he is, is capable of transforming the Indian UAV scene to that of a vibrant and potential competitor with the world players, thereby making India the DRONE HUB for the world.

His contributions towards rise of Drone awareness and Drone entrepreneurship in the country commenced well in the early 2005 and the commendable achievements being Outstanding performances of his team in the DARPA, Drone Challenge organized by Department of Defense, USA, Australian Medical Express Challenge, Swarm Drones for Indian Army and Indian AirForce, Drone based precision agriculture, water resource management, smart city/town planning and Smart Governance, surveillance and safety, Mapping and preservation of natural resource, Skill improvement and employment for rural and urban population, Disaster management and Rescue and Relief, Public Health and safety and the list is endless.

in 2018 Established World Record for Duration 6 h 7 min 45 sec at Chennai Tamil Nadu on a Class U Unmanned Aerial Vehicles UAV Subclass U 3 Multirotor under Category 6 kg to less than 25 kg Group 1 Internal combustion and Jet. World Record Certificate received from Federation Aeronatique Internationale (FAI) Netherlands.

Academic Qualification



1992
Government School
Andarkuppam,
Thiruvallur District

SSLC

HSC

1994
Government School
Sholavaram,
Thiruvallur District

BE
(Electrical and Electronics
Engineering)

1999
University of Madras

ME
(Avionics)

2003
MIT, Anna University,
Chennai

PhD

2009
MIT, Anna University,
Chennai

34

Sponsored Projects

45_{cr}

Projects Value

41

International Conference

24

International Journal

8

Patents

16

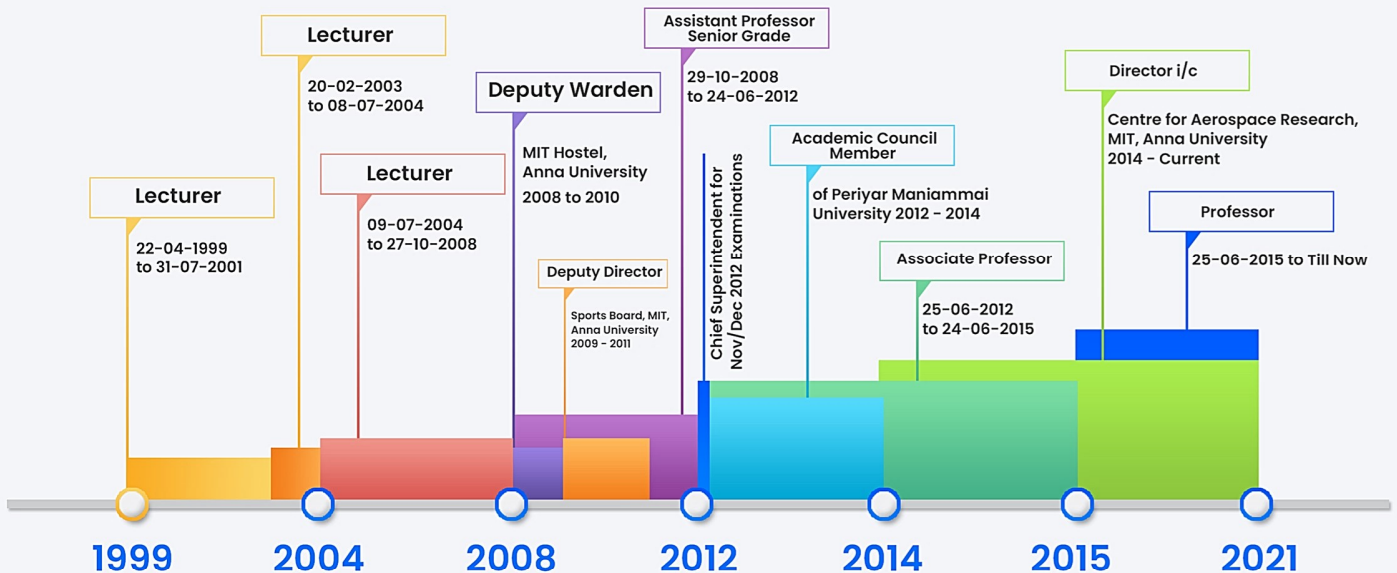
Research Scholars Guided
(7 Completed, 9 In Progress)

8

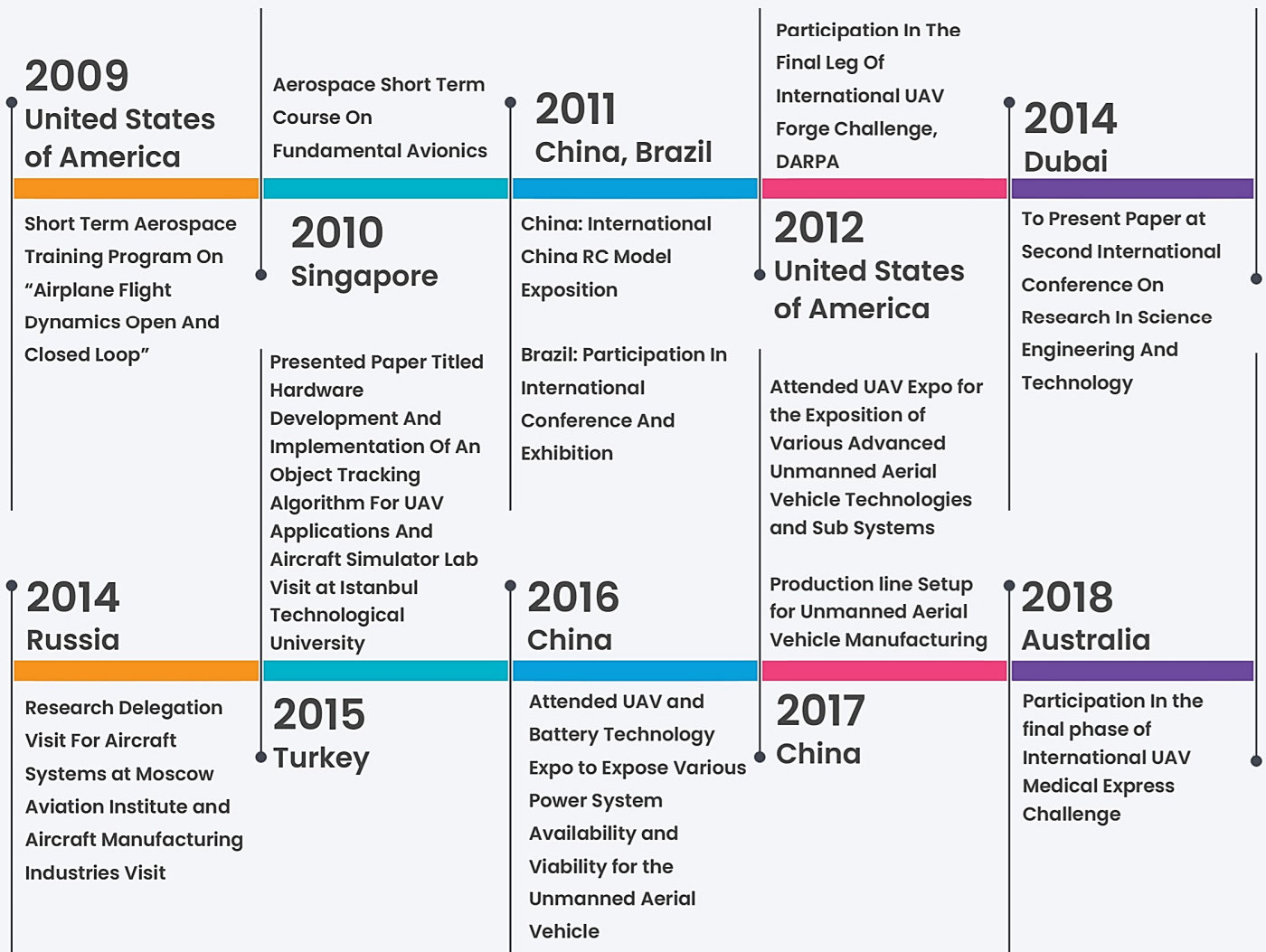
MoU Signed

Experience & Position Head

1999 - Till Date



Foreign Countries Visited



Facilities Created

- ▶ UAV Integration Laboratory
- ▶ UAV Prototype Laboratory
- ▶ UAV Fabrication Laboratory
- ▶ High-end Data and Photogrammetry Processing Laboratory
- ▶ RF Test Laboratory

Products Developed

- ▶ Fixed-Wing UAV - Electric Powered
- ▶ Fixed-Wing UAV - Gasoline Powered
- ▶ Rotary-Wing UAV - Electric Powered
- ▶ Rotary-Wing UAV - Hybrid
- ▶ Vertical Takeoff and Horizontal Transition UAV
- ▶ Rotary-Wing Tethered UAV
- ▶ Agriculture Spray UAV
- ▶ Swarm Drone
- ▶ Single Manned Drone Taxi (Under Progress)

Notable Recognition & Awards

- ▶ DRDO Award, DRDO – 2008 & 2009
- ▶ UAV Technology Demonstration, Department of Defense DARPA from USA – 2012
- ▶ DARPA, DOD Mission Completion Demonstration Appreciation from Former President Dr.A.P.J.Abdul Kalam – 2012
- ▶ Best Paper Award, International Institute of Engineers from UAE, DUBAI – 2014
- ▶ Chief Ministers Award for Rescue operation at Mouliwakkam Building Collapse – 2014
- ▶ Best Research Paper Award, Universal Research Engineers, Turkey – 2015
- ▶ Received 2nd prize Memento for Show causing the Achievements of UAS through Higher Education Department on the Republic Day parade – 2018
- ▶ Technology Day Celebration Guest of Honor, DRDL,DRDO, Hyderabad – 2018
- ▶ Dr. APJ Abdul Kalam Award, Government of Tamil Nadu – 2018
- ▶ 2nd Placed team of the Medical Express UAV Challenge, Australia – 2018
- ▶ Drone Olympic – 2019, Gold – 1, Silver – 2
- ▶ The India Geospatial Application Excellence Award – 2019
- ▶ Winner of Best Drone Architecture Award in Mehar Baba Swarm Drone Competition 2018 – 2021
- ▶ Innovaion Award from CTD, Anna University, 2021

