



## **Gangadhara Srinivas, Sankuratri**

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### **P R O F I L E**

- Sri Srinivas was born in the year 1966 and hailing from the lustrous green paddy and sugarcane fields village of Pasivedala; near to cultural capital of Andhra Pradesh, the historic city Rajahmundry; situated on the banks of holy river Godavari in East Godavari dist. He is the alumnus of ZPH School, Pasivedala, Andhra Kesari Centenary Junior College Rajahmundry and Bachelor of Engineering at Pune University, Pune.
- Since his childhood, he has been very keen in observing surroundings and always poses questions to teachers as well as family members in order to get answers to understand science behind his doubts. As we know, observation and questioning are basic qualities of enthusiasm as per psychology to achieve something in life; how Newton, James watt, Michael Faraday, Curie like great people contributed to mankind. Mr Srinivas doubts like.. Why free wheel fitted to a cycle's rear wheel? Is any one sit in a radio to sing ? The same continued even at university also; churned his entire professor's ken to answer his intelligent and enthusiastic questions! He is very much inspired by studying the then Russian books on science like "Physics in everyday life" by Yakov Perelman, a very famous book of united USSR. He was built a very big treasure of rare books to his credit. Not only that, but also his home itself is a big laboratory cum treasure house of thousands of gadgets, models and storage media running into hundreds of Tera Bytes.
- He has visited more than six hundred institutions all over the nation and inspired lacks of students and got many accolades. He has access to varied field professionals, educators, mentors, principals, teachers, top government officials and Scientists at national research institutions, to whom he inspired with his mentoring and lectures and way of questioning to young minds.
- As a responsible citizen of the country with a great ambition, he turned his steering from a wealthy professional technocrat to an inspirer, mentor and god

father to tap the inner talents of high school students. Which make a way to create a great treasure of resources to students; he developed a very powerful portal to students and teachers [www.scientificstudents.com](http://www.scientificstudents.com)

## **01. AMBITION AND STRONG DESIRE**

Why can't we produce a noble laureate in Physics after Sir CV Raman from India? This question always hunts my mind for more than a decade? Which made me to take the challenge to search, mould and polish the high school students to produce future Ramans to the nation

## **02. CERTIFICATIONS**

- SBCA
- DirecwaY
- Microsoft
- Cisco
- Amateur Radio Operator Licensee HAM VU3ESF
- Solar Energy Expert

## **03. POISITIONS**

- Regional Mentor of Change (RMoC), AIM -NITI Aayog, Gol
- President, Scientific Students Society
- Scientific Motivator
- Science Demonstrator
- Renewable Energy Expert
- Resource Person for NCERT
- Resource Person for INSPIRE
- Coordinator for Energy Swaraj Yatra
- Amateur Radio Operator Licensee - HAM VU3ESF
- Founder [www.scientificstudents.com](http://www.scientificstudents.com)
- Former Managing Director, PowerSense
- Former Network Administrator and Trainer at USA
- Former Network Engineer for setting up International Gateways to route Internet via Satellites

## **04. AS AN ARDENT TEACHER/MENTOR/TRAINER/PATH SHOWER**

- Serving high school children through various scientific programs. such as Scientific motivations, Science demonstrations, Project making workshops and scientific way of making science fair projects through problem solving models.

- Preparing children for GOOGLE Science Fair, INTEL-International Science & Engineering Fair (ISEF), National Children Science Congress (NCSC), Innovation in Science Pursuit for Inspired Research (INSPIRE) science exhibition.

#### **A. SCIENTIFIC MOTIVATIONS**

- My scientific motivation works great especially for schools hosting school level science fairs through my unique way of handling on "Problem solving model". It is all about Igniting young minds, with the power to think and innovate. I strongly believe every child is born scientist; scientific motivation helps children to boost their scientific attitude. Scientific Student's brainchild is "Young Scientist Program (YSP)". It is unique kind to give them a scientific method. Scientists sow the seeds of ideas/thoughts and nurture them as trees.

<http://scientificstudents.com/scientific-motivation.html>

#### **B. SCIENTIFIC DEMONSTRATIONS**

- Physics is part of science, and I found many children have physics phobia. And children get very less score in physics while gaining high in maths & chemistry; which has become major hurdle in entering into India's premier institutions such as NITs & IITs. To tackle this problem and to make children very familiar to physics, I have specially developed demonstrations. They would very closely connect to all the topics of physics.

<http://scientificstudents.com/science-demonstrations.html>

#### **C. SCIENTIFIC WORKSHOPS**

- In my childhood, many products were "Made in Japan". Presently all are "Made in China"! When it would be from "Made in India"? With this question, I was designed an innovative "Project making workshop" to turn schooling children as inventive children of the country. I am sure that soon, they will be successful in realizing Prime Minister's vision of Skill India, Digital India, and Make in India programs after this workshop. Usually, children like to ride cycle or play games; but not prompted to know or read about these activities. Reading helps children to learn techniques discovered by others. But how putting those into practice are what makes them to ready to face the real world!

<http://scientificstudents.com/project-making-workshops.html>  
<http://www.scientificstudents.com/circuitlab.html>

#### **D. DEMONSTRATIONS & WORKSHOPS ON RENEWABLE ENERGIES**

- Chief devastating effect of using 75% coal and burning of fossil fuels to produce energy is responsible for climate changes like global warming and

environmental challenges by green house gasses emission. Due to this, earth and its living entities are slowly getting ruined. Is it not our responsibility of keep mother earth the way, we found it?

- To make the fact understand by students and to contribute our might of patriotism by way of forming ‘Solar Soldiers’ that the sun’s abundant energy is present everywhere and provides us free, pure and green energy. Taken lead as a responsible citizen of this nation; mentored and motivated school and college students to understand comprehensively about renewable energies through my demonstrations and workshops.

<http://www.scientificstudents.com/solarlab.html>

<http://www.scientificstudents.com/windtech.html>

## 05. PRESENT ACTIVITIES,

- **SEMINARS** : Conducted Hundreds of seminars at Schools, colleges technical institutions and Universities on the topics of Importance of the basic science, Practical science, Physics in Practice, Electrical Energy, Electronic and Communications, and Renewable Energies. Global Warming, Climate Change Mitigation.

- **DEMONSTRATIONS** : Performed many demonstrations online and offline at various schools and Colleges on renewable energies

<http://www.scientificstudents.com/science-demonstrations.html> ,

<http://www.scientificstudents.com/my-online-solar-sessions.html> ,

<http://www.scientificstudents.com/solarlab.html> ,

<http://www.scientificstudents.com/windtech.html>

- **WORKSHOPS** : Conducted many workshops for school students and teachers.

<http://www.scientificstudents.com/project-making-workshops.html>

- **CONFERENCES** : Attended and participated conferences like

- The Things conference,
- RenewX Conference
- Indian Science Congress
- DiDac Educational Conference
- Brain Feed EduTech Conference
- Speaker at World Peace Summit IDYM
- National Science Teachers Congress
- Environment and Sustainable Development by CEEED & WEO
- Space Technology & Applications by ISRO

- **SCIENCE & TECHNOLOGY EVENTS & EXPOs PARTICIPATED :**

- Indian International Science Festivals - IISF1(2015)-IIT Delhi,
- IISF2(2016)-NPL Delhi, IISF3(2017)-IIT Madras, IISF4(2018)-Lucknow.
- 104<sup>th</sup> Indian Science Congress (ISC)-Tirupati
- All DST's INSPIRE National Level Exhibition cum Competitions from 2011
- National Children Science Congress NCSCs.
- AgriTech
- Electronica
- Photofina
- IRC RoboFest
- MakerFarie
- Lead India

**06. MEMBERSHIPS**

- Life Member - VIBHAVignana Bharathi A Swadesi Science Moment

**07. ACHIEVEMENTS**

- Record Holder in the university of Pune for obtaining 100% marks in the project work on the concept of "Receive worldwide satellite TV"

**08. AWARDS BESTOWED**

- Vigyan Mitra Puraskar 2021 by Sciencify, Pune
- Science Seva Ratna by Gandhi Gyan Prasthan, Hyderabad
- TANA Chaithanya Sravanti by TANA Foundation, USA
- Bharath Vidyasri by Bharath Talents, Ryali
- Best Science Fair Mentor 2013 by TANA, USA
- Best Teacher Award by Education Special Magazine, Rajahmundry

**09. LEGACY OF ACTIVITIES TILL 2010**

- Early years of my graduation completion, designed and commissioned many custom-made projects not only all over AP but also at abroad for major

industrial giants. Spent considerable time in US on specialization of satellite communication systems for business clients. Within two decades span of experience, mastered in designing, installing, maintaining, troubleshooting and commissioning operations. Shouldered various capacity building activities in Electrical and Electronic fields. Gained extensive mastering in Cable, DTH satellite TV, LAN/WAN, Leased circuit, Wireless LAN, HAM Radio, Radio Links, VSAT networks, Power Electronics, Solar Energy, Wind Energy, Process automation and allied multiple activities as follows.

#### **A. Head - Capacity building and R&D**

- Total Responsibility of Training Division.
- Organizing Technical Trainings for internal staff.
- Procurement of new staff and train them to fit for client needs.
- Providing on site trainings for corporate clients and conducting tests.

#### **B. Design Consultant**

- Worked on the concept of Battery Bikes
- Development of Hi Quality Intelligent Battery Chargers, Power Electronic Controller and Solar Based self-charging scooter.

#### **C. Manager-Operations**

- Development of End clients.
- Opening up new business accounts.
- Conducting/Organizing Training Programs for newly joined staff.

#### **D. Senior Manager-International Projects**

- Business Development in DTH at USA
- Business process development
- Setting up Call center for sales and service support.
- Training resource persons of sales and customer care operations.

#### **E. Business Administrator**

- Responsible for setting up business strategies
- Methodologies for DTH operations
- Supervising, planning, scheduling and coordinating resources
- Development of DTH business process and co-coordinating offshore development center at Hyderabad for the development of online business.
- In charge for educating, training of sales and service personnel
- Developing high quality material, checklist of steps to understand learners with smart tips.

- Involved in knowledge management and contributed to the improvement of installation practices of DTH Satellite and Dish Installers.
- Organizing feed backs to DTH satellite companies
- Organizing scheduled installations through various installation companies
- Installed directway (Ku-band 2-way internet via satellites).
- Techniques creation for evaluation of training programs and analysis

#### **F. Network Instructor**

- Trained students on VSAT networks and teaching NW concepts
- Conducting labs for Cisco students on networking certifications
- Trained enterprise technicians on Windows 2000 Server, ISA 2000 Server, McAfee Security ePolicy and more.
- Trained on Migration from Windows NT 4.0 based server environment to Windows 2000 domain environment.
- Application migrations from Netware to Windows 2000 servers
- WS Migration to Windows XP and Windows 2000 domain environment
- Enterprise roll out of new Windows 2000 based applications.
- Implementing SW Update Services, McAfee ePolicy, and ISA 2000 Server.
- Made new NW Operations Manual for new Windows 2000 environment.
- Designed and implemented a backup strategy and disaster recovery plan for the new Windows 2000 Server environment.

#### **G. Cable/Satellite Network Consultant**

- Setting up satellite dish antennas, tracking and peaking.
- Setting up control room for cable operators.
- Setting up modulators, wide band amplifiers.
- Trainings to cable technicians.
- Design of RF amplifiers and power pass amplifiers.
- Working on optical fibers.
- Improvement of lossless RF signal transmissions in cables.
- Design of cable networks for better signal balance in all bands.

#### **H. Senior Network Engineer - Gateways / VSATs**

- Responsible for training fresh and newly joined NW engineers.
- Setting up countrywide ISP with International gateways (8 sites) & Satellite VSAT links (14 sites).
- Tested & installed C-Band VSAT Antennas, Transceivers, and Satellite modems & fixing LNA/LNB.
- Conducted cross pole tests by coordination with NW operation centers.
- Coordinated with backbone service providers for routing Internet to POP after setting up transceiver carriers.

- Configured California Microwave-EF Data- SDM300A Satellite Modems and CST-5000 C-band Satellite Terminal, Star Guide Digital Networks-Star Guide II Satellite Receiver, Harmonic Data Systems-DVB Enterprise1 Broadband Router.
- Configured Cisco 25xx, 36xx series Routers.
- Configured RAS Servers of Lucent-PM3, Ericsson and 3COM/US Robotics with PRI, E1R2, DEL lines.
- Installing RAD-ASM31, Ascom-AM128A Base Band Modems for leased lines from PSTN companies.
- Installations of Breeze COM \* Breeze NET PRO.11 wireless LAN.
- Installations of Aironet, BR100/500 Radio links with Bridge type plate antenna.
- Installation and configuration of ISDN Devices.
- Maintenance of Machine Service Logs.
- Installations of APC, HITA, TATA-Liebert Online UPS systems and maintain and monitoring UPS power for the above equipment through SNMP.
- Installations of APC IP-Based Master Switch for control

#### 10. PROJECTS & FEW MORE ....

- **Project 1:** Design and Implementation of Horizontally distributed LAN to cater internet needs over a 20 KM Radius wired network and setting up Radio links from ISP to Prizam (Local ISP) using Ericson Radio Modems and Multicom Routers, setting up Proxy server and redistributing the internet to around 500 users along with security options.
- **Project 2:** Intranet and Internet on Intranet Design and Implementation of Backbone for intranet includes OFC, Trans-receivers, Hubs, Switches, Servers and configuring Department wise Networks (LAN). Setting up Internet from VSNL to this Intranet includes Modems, Router and servers, UPS Systems.
- **Project 3:** Multiple output SMPS Power supplies Design and Development of Multiple power output-based power supplies from a single power source to cater their Cellular Networks. Providing remote feedback signal for network monitoring.
- **Project 4:** Solar / SMPS Power Supplies Development and Testing of Solar/SMPS power supply systems for rural telephony and wireless communication needs.
- **Project 5:** Power Supply for Signal Jammers for Defense / Military Applications Development and Testing of 48VDC/180Amps power supply to signal Jammers for Defense/Military Applications by using of DeloRemi, TVS-Lucas Alternators extra fitments into vehicles and then charging additional Batteries.
- **Project 6:** Modification of electrical power system Design and installing 24V DC- 220VAC Inverters for Buses
- **Project7:** Process Instrumentation and Automation Design and implemented Process monitoring Network Based System of 150 kinds of Branded Products.



- **Project8:** 2300MW Thermal Power Project Design and implementation of Power Totalizer and system Integrations
- **Project 9:** 2300MW Thermal Power Project Re-designing, Repair and servicing of English Electric, London Make Control panels and synchronizers
- **Project10:** 6MW Captive Power Plant. Design, Fabrication, and Installation of AVR (Automatic Voltage Regulator) for Stamford, London Make 6MW Alternator