

PERSONAL INFORMATION

TANGELLA VENKATA SATYA VIJAYA SIMHA



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Sex Male **Date of birth** 09/08/1996 | **Nationality** Indian

WORK EXPERIENCE

09/11/2017 to 29/01/2021
(3Years 2Months)

Contract Engineer (C.E)

Defence Research and Development Laboratory, DRDL-DRDO, Hyderabad

- Research & Development on various coating & corrosion fields for various projects.
- Operations and maintenance of various testing equipments like sputtering, spinelling, Plasma Nitro Carburizing, Electroplating, Scratch test, Pin on Disc, corrosion simulation, salt fog etc..
- Maintenance of records & supportive documents like manuals, Demand rise, and supply orders Annual maintenance contracts etc... Analyzing data and generating reports.
- Testing various missile hardware by following international standards.
- Process developmental activities for various projects.

EDUCATION AND TRAINING

May 2019 to Dec 2020

Post Graduate Diploma in 'Energy and Environmental Management

A.P Productive Council, Hyderabad, India

CGPA 7.2 First class in semester-I

- Skill development course for Industrial and R&D sector.

April 2013 to May 2017

Bachelors. Tech in Chemical and Electrochemical Engineering

CGPA 7 First class

CSIR- Central Electro Chemical Research Institute, CSIR-CECRI, Karaikudi, India

- Specialization in Electrochemistry. Got cutting edge exposure towards R&D in various fields

May 2011 to April 2013

Intermediate

Percentage 82.7 First class

A.P Board of Intermediate education, Hyderabad, India

- Specialization in Maths, Physics, Chemistry (MPC)

May 2010 to April 2011

Secondary School Certificate, SSC

Percentage 81.6 First class

A.P Board of secondary education, India

- Subjects include all basics of Maths, Science, Social and Languages

ADDITIONAL INFORMATION

Mother tongue(s) Telugu

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B1
Hindi	B1	B1	B1	B1	B1
Tamil	B1	A1	B1	B1	A1

Levels: A1/A2 - Basic user B1/B2 - Independent user C1/C2 - Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Operating Systems** : Windows XP to Widows 7,8,10 (all versions), LINUX, Ubuntu
- Programing Skills**: AutoCAD, MATLAB trained at Anna University, CEG campus, Chennai.
- MS-office and its applications
- Excellent power point presentation skills

Organisational / managerial skills

R&D planning and executing the work. Laboratory equipments operation and maintenance.

- leadership (currently responsible for a team of 6 people)
- Process Development by novel methods
- Implementation of innovative ideas to reality
- Group discussion and sharing of ideas and thoughts
- Maintains work ethics

Job-related skill

My Bachelors and job experience has taught me some excellent skills like Surface engineering, Electroplating, Electro catalytic Water splitting, Photo Electrochemical hydrogen water splitting.

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer

Hobbies

Playing Football, Reading books, Watches Rocket launches, Goggling, Dancing, Current Affairs, Writing Articles and Motivating Others.

Driving licence

Indian driving licence for both LMV 2 wheeler, 4 wheeler with gear valid up to 2034

ADDITIONAL INFORMATION

Publications

Enhancing electrocatalytic total water splitting at few layer Pt-NiFe layered double hydroxide interfaces at **Nano Energy journal (Impact factor of 12.34)**

(<http://www.sciencedirect.com/science/article/pii/S2211285517303816>)

High-Performance Oxygen Evolution Anode from Stainless Steel via Controlled Surface Oxidation and Cr Removal at **ACS Sustainable Chemistry & Engineering (Impact Factor 5.9)**

(<http://pubs.acs.org/doi/10.1021/acssuschemeng.7b02090>)

Acknowledged on Microwave-Initiated Facile Formation of Ni₃Se₄ Nanoassemblies for Enhanced and Stable Water Splitting in Neutral and Alkaline Media at ACS Applied Materials Journal.

(<http://pubs.acs.org/doi/abs/10.1021/acsami.6b15980>)

Presentations

- **“Hydrogen Future Energy”** presented Paper at CeNSE at Indian Institute of Science IISC, Bangalore.
- **Photoelectrochemical water splitting** at Indian Institute of space science technology, IIST, Thiruvananthapuram.
- **Thermal Analysis of Optical Combustion chamber** for Jet Propulsion presented at Institute of Aeronautics Astronautics & Aviation- 2020, Tamil Nadu Aeronautical Society, Chennai.
- Poster presented on **“Converting Trash into Electricity at PECONOVA-14”** Tamilnadu Bharatidhasan University, Tiruchurapalli, India.

Projects

- **DSSC Quantum Dot's preparation in Various Methods and it's applications on Photo electrochemical Water Splitting at CSIR-CECRI.**
- **Life time estimation analysis of polymer and composites in DRDL-DRDO.**
- **Galvanic compatibility test & Hydrogen permeation tests for different materials in DRDL-DRDO.**
- **Underwent Electrocatalytic water splitting under Subrata Kundu, scientist at CSIR-CECRI.**
- **DRDO Fast-Track project on Hot Thermal Coatings for the application on surface missiles Technology.**

Conferences

12th International High Energy Materials Conference & Exhibit (HEMCE-19) at IITM, Chennai Think Nano Science, conference at centre for nano science engineering. Cense- IISC, Bangalore

Seminars

Material science seminar by B.S Murthy director IIT Hyderabad
Experiencing computational fluid dynamics (CFD) by Prof. Debasis Chakraborty
Power systems design for various missile subsystems and support to various projects by Dr. Loganathan,

Honours and awards

- Won 2nd Prize at **IIT Madras** on **Project X**.
- Won **1st Prize** twice in National Quiz conducted by SELECT-X5,X4 .
- Won **3rd Prize** In Working Model Presentation 'Cooling Tower' Conducted By CSIR On its Foundation Day.
- Participated and Won **3rd position** in paper presentation at **PECONOVA-14** Tamil Nadu Bharatidhasan University, Tiruchurapalli, India.
- Finalist of **Make in India** project conducted by Space Kidz India on field of energy sector. Presented on Photoelectrochemical Water Splitting.
- Won **1st prize in Quiz and 3rd in Essay Competition** Conducted on **Indian National Science Day by CSIR**.

Social Service

- Participated in the various programs organized under **“NATIONAL SERVICE SCHEME” (NSS)** and attended a Camp during 2014 – 2015 in Kundrakudi, Tamil Nadu.
- An active **Member in Vetrivelu Foundation For Education to All.**
- Serves as a volunteer in Homeopathy Health services distributes free medicine and food to people at yellamanchilli, Andhra Pradesh.

ADDITIONAL INFORMATION

Instrumentation Skills

- Have adequate knowledge to operate advanced instruments like
- Galvanostat/Potentiostat Instrument Polarization, Galavanic compatibility
 - X-Ray Fluorescence (XRF)
 - RF DC Sputtering
 - R&D coating formulation on various missile hardware
 - Anti- Corrosion coating equipment with vacuum assisted with flow tubes Passivation/Spinneling
 - Pin on Disc, Scratch Test, Salt Fog Test, Environmental Test Chamber

(Besides hands on experience in various R&D and testing equipments in the field of Electrochemistry)

Reference

Dr. Subrata Kundu,

Senior Scientist,
Electrochemical Material Science Division, ECMS
CSIR-Central Electrochemical Research Institute,
Karaikudi, Tamil Nadu- 630006.
E-mail: skundu@cecri.res.in

B.V.Subba Rao,

Scientist 'E'
Head, Electroplating & Painting Section (EPPS)
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