KASIMALLA **KRISHNA VAMSI**

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⊙ https://github.com/krishnavamsi333

🎂 Date of Birth : 03-02-2004

PROFESSIONAL OBJECTIVE

Innovative Electrical and Electronics Engineer with a passion for renewable energy solutions and power electronics. Proficient in Python, MATLAB, Linux, robotics, and ROS. Seeking opportunities to contribute to transformative projects, optimize solar energy systems, and implement MPPT algorithms. Committed to advancing sustainable technologies for a cleaner energy future.

EDUCATION

Velagapudi Ramakrishna Siddhartha Engineering College

Kanuru, Vijayawada, Andhra Pradesh 520007

Under the affiliation of Jawaharlal Nehru Technological University, Kakinada (JNTUK)

Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering

Sep **2022 -**Apr **2025** | CGPA: **8.37**

Government Polytechnic, Gannavaram

Beside NTTF, Buddavaram, Andhra Pradesh 521101

*affiliated with State Board of Technical Education and Training(**SBTET**) AP.*

Diploma of Education, Electrical and Electronics Engineering

Jul **2019 -** Apr **2022** | Percentage: **90.09%**

Z.P. High School, Bhatlapenumarru

Secondary education

Jul **2014 -**Apr **2019** | CGPA: **9.5**

PROFESSIONAL EXPERIENCE

Intern

*Andhra Pradesh Central Power Distribution Corporation Limited (**APCPDCL**)*

Oct **2021** - Feb **2022** (**16 weeks**)

Completed industrial training at "33/11KV Substation, Vuyyuru" from 18th October 2021 - 19th February 2022. Worked under the assistance of an Executive Engineer.

Intern

*National Institute of Technology Andhra Pradesh (**NIT AP**)*

Jun **2024** - Jul **2024** (**6 weeks**)

Focused on Power Electronics and explored the path to solar enlightenment with Maximum Power Point Tracking (**MPPT**) from 3rd June 2024 to 15th July 2024.

Internship Trainee

SkillDzire,

May 2024 - July 2024 (12 weeks), *Virtual*

Completed a short-term internship program focused on Cyber Security

President, Electric Vehicle Club & Member in Robotics Club, *Velagapudi Ramakrishna Siddhartha Engineering College*

22 August 2023 - **Present**

Leading initiatives to promote electric vehicle awareness, organizing events, and collaborating with industry experts.

Intern

Peepul Agri Ventures LLP

Dec **2024** - April **2024** (**16 weeks**)

Focused on Simulation for the swerve drive controlling in the Ignition fortress simulation and integrated hardware for Agriculture autonomous bot with ROS-2 frame work.

PROJECTS AND PUBLICATIONS

Portable Solar Charging System for Electric Bicycles and Batteries
- Accepted at IEEE BITCON 2024. This research presents a solar-based charging solution tailored for electric bicycles and portable battery applications.

Precision Chili Harvesting with ROS 2 and Reinforcement Learning
- Accepted at IEEE BITCON 2024. This paper explores the integration of ROS 2 and reinforcement learning to automate the harvesting process for chili crops.

Enhancing Mobility in Autonomous Robotics with a Four-Wheel and Four-Steering System Controlled Remotely via Ubuntu
- Accepted at IEEE BITCON 2024. This paper discusses advancements in mobility for autonomous robots using a four-wheel, four-steering system.

CERTIFICATIONS

- Basic Introduction to **Linux** Course - Cisco (ID: 5246176)
- NDG **Linux** Unhatched - Cisco Networking Academy (ID: 5246155)
- Overview of Space Science and Technology - **ISRO** (ID: 1001221357)
- Cisco Certified Network Professional (CCNP) - **Cisco** (ID: 1001221357)
- Privacy and Security in Online Social Media - **NPTEL** (Jan-Apr 2024, Score: 63/100)
- The Joy of Computing using **Python** - **NPTEL** (Jan-Apr 2024, Score: 50/100)
- Introduction To **Internet Of Things** - **NPTEL** (Jan-Apr 2024, Score: 80/100)

SKILLS

Technical Skills

- Programming: Python, MicroPython, Embedded C-language
- Operating Systems: Windows, Linux, macOS
- Software Tools: MS Office, MATLAB, SIMULINK, PSpice, Thonny, MiPower, PowerWorld
- Expertise: **ROS/ROS2**, Cloud Computing, Cyber Security, IT Essentials, Circuit Design, Power Systems, Renewable Energy Systems, MPPT for Solar, Power Electronics, Hardware Design for Mini Bots (Robot Platforms)

Transferable Skills

- Teamwork, Problem-Solving, Leadership, Adaptability, Time Management, Critical Thinking, Creativity

HONORS & AWARDS

Solder Master - 2nd Prize, AFOSEC Event
Velagapudi Ramakrishna Siddhartha Engineering College
February 2023

Rally Participation
Andhra Pradesh State Energy Conservation Mission (**APSECM**)
14 December 2022

REFERENCE

Project Guide
T. Naveen Kumar
Mail:naveenkumar@vrsiddhartha.ac.in
Contact 9959126130
Velagapudi Ramakrishna Siddhartha Engineering College
Position: **Assistance Professor**

DECLARATION

I solemnly declare that the information furnished above is free from errors to the best of my knowledge and belief.

Place: Vijayawada