

## ARUMULLA SRILATHA

Peddapavani (Village) ,Lingasamudram(Mandal),Prakasam (District)

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### Career objective:

To secure a challenging position in a reputable organization to expand my knowledge, learnings , and skills

### Academic qualification:

| Course              | Institution                                            | Board/<br>University                           | Year of<br>passing | Percentage/<br>grade |
|---------------------|--------------------------------------------------------|------------------------------------------------|--------------------|----------------------|
| B.tech (EEE)        | pace institute of<br>technology and<br>science ,ongole | JNTUK                                          | 2021               | 7.56                 |
| <i>Intermediate</i> | A. P. S. W. R. S<br>Junior college,<br>PEDDAPAVANI     | Board of<br>intermediate<br>education , AP     | 2017               | 8.0                  |
| SSC                 | K. G. B. V ,V.V<br>PALEM                               | Board of<br>secondary school<br>education , AP | 2015               | 8.5                  |

### Technical skills:

- C language
- Basics of python
- Data structures
- Core java

## Project details:

**Project title:** SENSORLESS DUAL AXIS SOLAR TRACKER USING IMPROVED SUN POSITION ALGORITHM

**Description:** To prove the concept and evaluate the proposed algorithm, a low cost widely available materials were used which was programmed based on Arduino microcontroller. The proposed algorithm works based on two search methods namely the global search that approximates the best point location in a region, and local search that further determines the actual sun's position. Experimental results showed that the proposed algorithm gives better performance compared to the existing sun position algorithm (SPA) - based method as well as the fixed panel system. In terms of total output power, the proposed algorithm gives 17.96% more efficient than the fixed system and 6.38% better than the SPA-based system. Furthermore, the percentage error of the experimental measured angle to the actual sun azimuth angle was relatively minimal (less than 3%) during clear day operation. The system was proven to be effective in tracking the sun for improved energy production of solar PV panels and the proposed algorithm also can be used for designing the tracker with larger size of solar PV systems.

## Certifications:

- Attend the one day National level seminar on Electric& hybrid vehicles.
- Attempted the National level online quizzes in(control system, Electrical machines).

## Areas of interest:

- Digital electronics

## Personality Traits:

- Self motivated
- Hard working
- Problem solving, Team work

## Languages known:

- Telugu
- English
- Hindi

## Hobbies:

- Interesting in updating my self
- Playing shuttle
- Watching News channels

## Declaration:

I here by declare that all the above mentioned information is true and correct to the best of my knowledge and belief.

*Place: Ongole*

***Arumulla srilatha.***