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SUMMARY

I'm an experienced developer and a GNU/Linux geek with interest in new Technologies and trends, I've been working on many frameworks and technologies

Faced many tech problems and I've been eager to solve it all according to my flexibility in learning and developing my skills.

SOFT SKILLS

- Good English
- Self-Learning
- Organizational Behavior

EDUCATION

- Computer Science level 3 at October 6 University

TECHNICAL SKILLS

- Architecture
  - Good understanding of data structure & OOP concepts
  - Software Engineering principles
  - Algorithm analysis
  - Design patterns experience
- Interfacing
  - Key Pad
  - LCD 16 x 2
  - A4988 driver
  - LDR
  - Ultrasonic sensor
  - Line Tracker Sensor
  - Stepper motor & Servo motor
- Microcontrollers
  - AVR
  - PIC
- Boards and Circuits
  - PCB design principles
- Prototype Boards
  - Arduino Uno & Mega
  - ESP8266 Node MCU

Sun Tracking System

This an embedded system aims to make solar cells produce the most possible energy by Making the cell always centralized to the sun, the mechanism is that the cell is put on a Rectangular rotating panel, the panel has two LDR at attached to its ends when the left LDR Detects much light than the right one, the panel rotates towards the left LDR until both Sensors detects the same values of signals represented by light and vice versa.

Hardware Components

1. LDR
2. ATmega328p & USBasp programmer
3. DC motor
4. Capacitors & Resistors
5. Solar Cell
6. Copper Board for the circuit

Project source: https://github.com/Mr-Geek11/Sun-Tracking-System

Project Demo: http://bit.ly/2YwZOuT