Rojin Roy

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Versatile and highly skilled professional with related education, to contribute in an **Embedded Systems Engineer** *role.*

FEATURED SKILLS

- Embedded C
- AVR, PIC
- SPI, I2C, UART, GPIO
- oscilloscope, logic analyser
- Ability to read a schematic and datasheets
- vim, terminal
- IoT esp8266, LoRa
- Analytic Mindset, Deductive logic, Problem-solving
- GIT

HOBBIES

- Learning Music
- Playing Chess

EDUCATION

Jawaharlal Nehru Technological University

M.Tech –Mechatronics, September 2018 – Pursuing

Guru Nanak Institute of Technology

B.Tech – Electronics and Communication, July 2013 - May 2017

Narayana Junior College, Hyderabad

Intermediate, June 2011 - April 2013

St. Peter's Grammar School, Hyderabad, Telangana

SSC, June 2001 – March 2011

PROJECTS

Speed Controllable Cart
- Designed and developed a Speed controllable robotic cart.
- The speed was controlled using PWM modulation of motor power signal. AtMega8 microcontroller was used to generate the PWM signal and control the speed.
- L293D motor driver chip was used to interface the signal from Atmega8 controller to the motor.

Wireless Automated Attendance System
- Designed and developed a Wi-Fi based automated fingerprint attendance system using ARM9 based STR9 microcontroller, R305 fingerprint module and ESP8266 Wi-Fi module.
- Interfaced fingerprint and Wi-Fi modules with the microcontroller using two separate UART buses. Sent the attendance data to central server using the Wi-Fi module.

Systems Administration
- Hosted FOSS projects Nextcloud, Diaspora, Jitsi meet on linux servers
- Configured linux desktops with Debian, Ubuntu and Arch Linux

EXPERIENCE

Sinewave Systems India Pvt Ltd.

Trainee Engineer July 2020 – Present

- Designed add on board to adapt product to new requirements.
- Researched LoRa wireless specification for long distance wireless communication.

ACTIVITIES

- Part of the MiniDebConf India 2021 Organising team