

POLAKI TARUN KUMAR

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Visakhapatnam, 530044

Dynamic and detail-oriented Embedded Systems Engineer with hands-on experience in developing innovative projects using various microcontrollers and communication protocols. Seeking to leverage skills and knowledge gained through real time projects to contribute effectively to the company.

PROFESSIONAL EXPERIENCE

ROBOCOUPLER Pvt. Ltd.

R&D PRODUCT DEVELOPER & TECHNICAL TEAM LEAD

VISAKHAPATNAM

FEB 2023 – APRIL 2024

- Developed IOT and automation solutions using microcontroller.
- Created MIT App Inventor-based applications.
- Integrated sensors, displays, and motor control systems.

RADAR TECHNICAL CENTER Pvt. Ltd.

ADVANCE DIPLOMA COURSE IN EMBEDDED SYSTEMS

BENGALURU

JUL 2024 – DEC 2024

- Trained in C Programming, Embedded C, and Data Structures.
- Worked with microcontrollers & processors (ARM7 LPC2149).
- Learned communication protocols (I2C, SPI, UART, RS232, RS422, RS485, CAN).
- Gained experience in Linux, Linux Device Drivers, FreeRTOS, OS(Kernel Architecture, Process Management, Scheduling).
- Practiced using Keil IDE for embedded system development.

INTERNSHIPS

ROBOCOUPLER Pvt. Ltd.

INTERN

VISAKHAPATNAM

AUG 2022 - FEB 2023

- Designed a Bluetooth controlled stepper motor system.
- Implemented revolution count tracking via MIT App Inventor.

BSNL EXCHANGE

NETWORKING INTERN

VISAKHAPATNAM

APRIL 2021 - MAY 2021

- Learned OSI Layers, switching, routing protocols and topologies.
- Configured routers using CISCO Packet Tracer.

TECHNICAL SKILLS

- **Programming:** C, Embedded C, Python, Data Structures
- **Microcontrollers & Processors:** ARM7 (LPC2149), 8051, Arduino, ESP8266, A9G
- **Communication Protocols:** I2C, SPI, UART, RS232, RS422, RS485, CAN
- **Networking:** OSI Layers, IPv4, IPv6, TCP/IP, Protocols
- **RTOS & OS Concepts:** FreeRTOS, Kernel Architecture, Process Management, Scheduling
- **Software & IDEs:** Keil, Arduino IDE, PostgreSQL, Python Idle
- **Operating Systems:** Windows, Linux, Linux Device Drivers

PROFESSIONAL SKILLS

- Proficient in MS Office (Word, Excel, PowerPoint)
- Strong analytical, problem-solving, and teamwork abilities

PROJECTS

- Smart Jacket for visually impaired, Laser security alarm system, IOT ID card detection.
- Music Player, Library Book Picker, SSD1306 OLED Image Animations, Line Following Bot, Fire Fighting Bot, DC Motor Speed Control.

EDUCATION

Raghu Institute of Technology

B.Tech, Electronics And Communication | CGPA 7.3/10 |

May 2023

Sri Chaitanya Jr College

Intermediate in MPC Group | Per 82/100 |

May 2018

S.R. Digi School

Matriculation in CBSE Board | CGPA 7.8/10 |

March 2016

DECLARATION

I certify that the information provided in this resume is true and accurate to the best of my knowledge.