Anu Kumar Tiwary

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Department of Electronics and Communication Engineering

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Academic Qualification

Degree/Certificate	Institute	CPI / %	Year
B-Tech (ECE)	Rajiv Gandhi Institute of Petroleum Engineering	6.8 (5th semester)	2020-2024
XII	Narayana Junior College, Hyderabad	87.2%	2020
X	Narayana Concept School, Hyderabad	9.7 CGPA	2018

Internship / Work Experience

HAL (Avionics), Korwa | Vocational Trainee.   *08July'22- 29 July'22*
- Worked in HAWK DMC JAGWAR Department. I studied about testing process of Display and Mission Computer (DMC).
- DMC contains 9 board assemblies which includes Analogue I/O, M40 Processor, Programmed Graphics Generator, etc.
- Testing is carried on each of these 9 boards which starts from Boarding Resistance, Insulation Resistance, Power Supply Tests, etc using dedicated software where fault board is replaced as end result.
- Also visited other workshop of JAGWAR Department and learnt about various parts of fighter planes (Black Box, Map Navigation, Display etc) and CNC workshop.

Gyanarpan (NGO) | English Teacher.   *May'20- Present*
- It is an NGO where I have taught English to class 9th & 10th in both offline and online mode to underprivileged students.
- I have tried my best to give back to society

Academic Projects

Fingerprint based biometric attendance system.   *Aug'22- Oct'22*
- ◊ I have simply integrated an Arduino with an LCD display and an RTC module.
- ◊ I have used the Arduino and fingerprint module to collect and record attendance information.
- ◊ Professional optical technology, precise module manufacturing techniques.
- ◊ Low power consumption, low cost, small size, excellent performance.

Study and design the 3D printer for multi-medicine pills.   *Aug'22- Dec'22*
- ◊ Studied various medical research papers, where the benefits of using polypill is justified.
- ◊ Research showed using polypill is time and money saving for health recovery.
- ◊ Designed the basic structure of the polypill printer that is to be built.

Working on 3D printing for multi-medicine pills.   *Jan'22- Present*
- ◊ Working to make a prototype of the Polypill Printer based on medicine dose requirement for particular person.
- ◊ Writing an Arduino Programme for the device.
- ◊ Solved the problem of self-reacting of drugs by placing a protein layer in in between each drug.

Skills

Programming Language: C, **MATLAB,** Python, C++, **Verilog.**
Simulation and Design: **Simulink-MATLAB**, AutoCAD.
Other Software: Microsoft Office (Word, PowerPoint, Excel).
Languages: Multilingual (English, Hindi, Telegu, Bhojpuri with fluency.)

Scholastics Achievement

- Cleared 1st level of NDA (batch-144).
- SIMO, AIR-39.
- Qualified JEE Advanced.
- Won final in sprint in college intra competition.

Relevant Courses   *Ongoing

Fundamentals of Electronics	Control System*	Analog Circuit and System	Communication*
Data Structure and Algorithms	Network Analysis & Synthesis	Digital Circuit and System	Microprocessor
Fundamental of Electrical	Solid State Electronic Devices	Signals and System	Microelectronics

Position of Responsibility

Gyanarpan | Coordinator.   *June'22- Present*
- Designed the curriculum of the class and worked on smooth functioning of course with team of teaching volunteers.
- Leading the team of Media and Publicity, logistic, teaching volunteers who work in various programmes of Gyanarpan like teaching, Exam conducting, Study material preparation, mobile distribution based on merit, maintenance of online recorded lectures.

Gyanarpan | Logistic Executive.   *May'21- May'22*
EAGE Event Management Executive | EAGE RGIPT Student Chapter.   *May'21- May'22*
IEEE Member Executive | IEEE RGIPT Student Chapter.   *May'21- May'22*