SKILL DEVOLOPMENT PROGRAM REPORT

AYYAPU REDDY DANDE

BU21EECE0100105

DAY-1

- By PRITHVI SEKHAR PAGALA
- **Introduction:** Received an overview of the internship program and expectations.
- **Learning Styles:** Explored different learning styles using the VARK model (Visual, Auditory, Reading/writing) to understand how individuals learn best.
- **Project Management:** Analyze projects using SWOT analysis (Strengths, Weaknesses, Opportunities, Threats).
- **Embedded Systems:** Learned about block diagrams and their role in embedded systems.

DAY-2

- By PRIYADARSHINI (PREX STUDIO)
- **Career Development:** Created dynamic profiles and crafted effective resumes to enhance job prospects.
- **Agile Methodology:** Gained an understanding of Agile project management, emphasizing efficient planning and execution techniques.
- **Professional Branding:** Learned valuable skills for building a strong LinkedIn presence.

DAY-3

- By BHARATH G
- **Project Management:** Deepened understanding of the Project Development Lifecycle (PDLC) with a focus on project initiation and management.
- **Practical Application:** Put theory into practice by building a basic calculator project.
- **Version Control:** Introduced to Git and GitHub, including setting up a local repository, committing changes, and collaborating effectively.

DAY-4

- By Dr GIRISH SHANKAR MISHRA , Dr ARVIND KUMAR
- **PCB Design:** Participated in a workshop on PCB (Printed Circuit Board) design using EasyEDA and TinkerCad software.

- **Circuit Simulation:** Explored the use of TinkerCad for simulating circuits and EasyEDA for PCB layout creation.
- **Advantages and Disadvantages of PCB Design:** Analyzed the benefits and drawbacks of PCB design.

DAY-5

- By Dr GIRISH SHANKAR MISHRA, Dr ARVIND KUMAR
- **Hardware-Software Integration:** Combined hardware and software elements to bring previously designed circuits to life.
- **Circuit Design:** Created new analog and digital circuits.
- **BY** RAJESH SOLA
- **Bitwise Operations:** Learned about bitwise operators for manipulating individual bits within an integer.

DAY-6

- **BY** RAJESH SOLA
- **Networking Fundamentals:** Studied IPv4 addressing, including conversion from decimal to binary format.
- **Binary Operations:** Performed various operations in binary, including shifting, working with unsigned integers, memory offsets, overflow detection, underflow prevention, endianness (big-endian vs. little-endian), and platform-specific effects on program execution.

DAY-7

- **BY** RAJESH SOLA
- **Bitwise Operations in Practice:** Applied bitwise operations to solve tasks like counting bits, flipping bits, and setting/resetting bits within an integer.
- **New Programming Concepts:** Introduced to new syntaxes like stroke and sprint commands.

DAY-8

- **BY** RAJESH SOLA
- **Arduino Programming:** learning basic Arduino coding in TinkerCad using digital and Analog inputs/outputs, and LED control.
- **Programming Fundamentals:** Explored the programming process, debugging techniques, and different build phases.

This internship has provided a strong foundation in various technical and professional skills. The combination of lectures, workshops, and hands-on projects has been a valuable learning experience.