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**SKILL DEVOLOPMENT PROGRAM REPORT**

***P . VAISHNAVI***

***BU21EECE0100488***

**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.