

Enroll No. : 19012011087

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**Attendance Sheet including work done – Student's project/ Industrial Training**

No.	Date	Company Project Guide (Signature)	Summary of Work Done as per date
1	26-12-2022		<ul style="list-style-type: none"> <li>• Induction program and Document Verification</li> <li>• QA Test Lab visit: Awareness on Test lab equipment and product description</li> <li>• Basic Introduction regarding Company, Embedded System</li> </ul>
2	27-12-2022		<ul style="list-style-type: none"> <li>• Made a document and gone through some unknown terms of the product description we got while QA Test Lab visit</li> <li>• Revised Basic C syntax</li> <li>• Started Learning Git and Installation of Git</li> </ul>
3	28-12-2022		<ul style="list-style-type: none"> <li>• Practiced Git commands,made repository on Git</li> <li>• Started implementation of C program task as given</li> <li>• For the C program revised the concept of pointers</li> </ul>
4	29-12-2022		<ul style="list-style-type: none"> <li>• Completed C programs based on strings, pointers</li> <li>• Learnt about the concept of bit manipulation</li> </ul>
5	30-12-2022		<ul style="list-style-type: none"> <li>• Completed C programs based on bit manipulation,inversion of bits</li> <li>• Learnt about malloc,Makefile,free and bit masking</li> <li>• Started revising Python Concepts</li> </ul>
6	2-1-2022		<ul style="list-style-type: none"> <li>• Gone through Python concepts like module,pandas,numpy</li> <li>• Started Learning Socket Programming for Implementation of Client server program in C</li> </ul>
7	3-1-2022		<ul style="list-style-type: none"> <li>• Done some of the python exercises to revise python concepts</li> <li>• Learnt about Multithreading and socket binding for Implementation of Client server program in C</li> <li>• Installed Ubuntu as well as Virtual Box</li> </ul>

8	4-1-2022		<ul style="list-style-type: none"> <li>Committed all finished C programs on git repository</li> <li>Learnt about Merge Conflicts in Git.</li> <li>learnt about some git commands such as git reset,git add,etc. that are used for resolving the conflicts in Git</li> <li>Basic implementation of TCP Single client server communication</li> </ul>
9	5-1-2022		<ul style="list-style-type: none"> <li>Completed Single Server Single Client chatbot communication program in C</li> <li>Started Linux tutorial where the topic covered mainly was Windows and Linux difference,basic understanding of linux</li> <li>Learnt about Kernel</li> <li>Learnt about Socket,port,socaddress,etc</li> <li>Tried to implement TCP Multiple client server communication.</li> </ul>
10	6-1-2022		<ul style="list-style-type: none"> <li>I gone through some unknown functions like setsockopt, then learnt about select() linux command and also about the datastructure used for it (fd_set) and its associated functions</li> <li>Research on implementing ideas using SOM Cortex A55 application processor</li> <li>Also about E-Textile and smart fabric</li> <li>Pursued Linux Tutorial and Awareness on Yocto project</li> </ul>
11	9-1-2022		<ul style="list-style-type: none"> <li>UNIX ,UNIX and LINUX difference , Limitations of Unix and Linux</li> <li>Implementation of bash file using nano editor</li> <li>Practiced some linux commands such as man,chmod,etc.</li> <li>Started doing python tasks where learnt about module num2words(not used),abs</li> </ul>
12	10-1-2022		<ul style="list-style-type: none"> <li>I gone through pthread concept implementing Multiple Client Server Model in C</li> <li>Learnt about Shell Scripting, Bash script execution and syntax, Types of Shell in linux</li> <li>User Administration in Linux</li> <li>Attended Testing of Glide's Fitness/healthcare based products training where leant about some terms Cortex M0 based module,BLE.</li> </ul>
13	11-1-2022		<ul style="list-style-type: none"> <li>Revised some linux concepts: Package Manager , RPM ,Apt , YUM , dpkg</li> <li>Pursued Python programs: Learnt about ord,chr like built in functions and finished program based on converting integers into its equivalent words</li> <li>Learnt about the headers files included in Socket Programming netinet/in ,arpa_inet ,sys/socket</li> </ul>
14	12-1-2022		<ul style="list-style-type: none"> <li>Learnt about some topics such as: Synchronous I/O multiplexing ,sendto() system call , sockaddr structure , msg_flags</li> <li>Troubleshooting Multiple Client Server Program</li> </ul>

			<ul style="list-style-type: none"> <li>• Practised some git commands to track changes in the code using git.</li> </ul>
15	13-1-2022		<ul style="list-style-type: none"> <li>• Started Datasheet Reading of USB receptacle where learnt about : RoHS , UL94V-0 , Flammability test</li> <li>• Troubleshoot Multiple Client Server Programming</li> <li>• Made a document on the training workshop that we gone through before</li> <li>• Pursued the Python hands-on task based on inversion of bits,bit manipulation</li> </ul>
16	16-1-2022		<ul style="list-style-type: none"> <li>• Learnt about Increment decoder , Laser Drivers</li> <li>• Pursued datasheet reading of flash memory where gone through some interfaces introduction like SPI,I2C,UART,etc.</li> <li>• Learnt about SPI , Quad SPI and gone through some points of the datasheet of network connector such as product's Features , Pin description , Instructions , Write protect features</li> <li>• Implementing Multiple Client Server Programming with select()</li> </ul>
17	17-1-2022		<ul style="list-style-type: none"> <li>• Gone through some terms such as WLAN Subsystem , BLE , External Interfaces as a part of datasheet readings of Wifi and Bluetooth MCU.</li> <li>• UART specifications , SPI Slave specifications , GPIOTE specifications , DFU Specifications , Pin Descriptions , Power Up Sequence , Recommended Power Circuit , Battery operation , Pattern Design Guide</li> <li>• Learnt about LED Driver, Proximity Function, Electrocardiogram (ECG) as a part of datasheet reading of bio-senser</li> </ul>
18	18-1-2022		<ul style="list-style-type: none"> <li>• Learnt about Sample of FIFO Data Index , FIFO Handling Registers , Some important figures as a part of datasheet reading.</li> <li>• Gone through the terms such as : Firmware, SDK, STM32cube IDE</li> <li>• Datasheet reading :Bluetooth 5.2 , Comparators , General-Purpose I/O (GPIO) and Special Function Pins , Programmable Timers , Serial Peripherals , Security</li> <li>• Attended Webinar on Security of Embedded Systems where learnt about some tools ,Secure boot concept, etc</li> <li>• Pursued the implementation of Python hands-on task based on strings,modules</li> </ul>
19	19-1-2022		<ul style="list-style-type: none"> <li>• <b><i>I was on the medical Leave</i></b></li> </ul>
20	20-1-2022		<ul style="list-style-type: none"> <li>• Done Datasheet Reading of SoC where leant about Strapping Pins, Analog Peripherals, etc</li> <li>• Completed Python hands-on task learnt about concept of Makefile in python</li> <li>• Gone through the Topic : “FIFO” in embedded C and how it can be used to communicate between the processes, etc</li> </ul>

			<ul style="list-style-type: none"><li>• Attended the training session on Glide's Wearable Device's testing measures.</li></ul>
21	23-1-2022		<ul style="list-style-type: none"><li>• Pursued FIFO task for that I revised some of the Operating System Topics: Disk Management , What is Disk scheduling</li><li>• Some of the terms of Disk Scheduling such as seek time,rotational latency,etc.</li><li>• FCFS scheduling algorithm</li><li>• Implemented FCFS in C</li></ul>
22	24-1-2022		<ul style="list-style-type: none"><li>• Implemented FCFS in C using queue</li><li>• Tried to implement multiple Client Server program using UDP in C</li><li>• Started implementing Single Client server program in python</li></ul>
23	25-1-2022		<ul style="list-style-type: none"><li>• Started Interface study of SPI,QSPI, I2C,UART/USART</li><li>• Completed Implementation of Single Client Server program in python</li><li>• Improvised the Done C programs as well as Python programs as instructed</li></ul>
24	27-1-2022		<ul style="list-style-type: none"><li>• Pursued Interface study of I3C, RS232, RS 485, USB 2.0/3.0/ OTG etc</li><li>• Started Implementing Multiple Client server program in python</li></ul>

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**(Sign of College Project Guide)**