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Preface

With the rapid strides of technology the Computers are becoming more and more powerful and finding applications, one has hardly ever imagined. The increased power of the computers stems from the myriad sources to which it can communicate. The need for interfacing a variety of applications to the Computer has spurred research for an ideal interface that will facilitate the development of the applications and at the same time provide the end user with the simplicity and ease of use.

The USB is one such standard developed which has gained popularity since its existence. By now it is an interface to reckon with and find countless applications in the field of Engineering. Almost every new PC has at least a couple of USB ports. This interface has consistently outperformed the legacy interfaces such as RS-232 (**EIA/TIA-232**), and Centronics Parallel Port. The Ubiquity and the versatility of the USB protocol induced us to undertake a project that will enable to connect a device or technically a 'peripheral' to the Computer through the USB port.

The document is a project report on the **'USB Data Logger'**. The report attempts to provide all the necessary information about the project and its application.

The report starts with a title page, table of contents followed by the preface to inform the reader about the organisation of the contents. Acknowledgements attempt to thank all those, without whom the project would not have been completed.

The Introduction provides the factual information about purpose of this project and briefs the reader about the actual content of the report.

The project information is presented in the form of chapters, where the contents are given with different perspectives. The description starts with the project as viewed from System Perspective. Here, block diagram of the project is explained in order to understand the system as a whole. This is followed by description from entity perspective, where each of the subsystems is explained independently.

Most of the technical details and intricacies are purposely not included in the main discussion, but are provided as Appendix. Hence, Appendix includes the schematics for the actual hardware implementation, the datasheets and the software code developed. This is done in order to keep the main discussion simple and not to complicate the things. Wherever required, reference is given to the Technical details in the Appendix.

At the end, references of books and website are provided for further clarification about the content.

Acknowledgements

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