**PROJECT DIARY**

**EMBEDDED SYSTEM AND DESIGN**

**Submitted by:**

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**Faculty:** Prof. Sivanesan S.

In fulfillment for the course of

**Embedded System Design (CSE3006)**



School of Computer Science & Engineering

**WEEK WORK**

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| Week 1  (11 Aug, 2018-17 Aug, 2018) | Collected information about various Embedded Systems that are present around us and studied their internal architectures like that of ATM. |
| Week 2  (18, Aug, 2018-24 Aug, 2018) | We got ourselves updated about the various tools that are available and used in the industry level to solve real time problems. We researched and probed for the various possibilities to be explored as part of our project. |
| Week 3  (25 Aug, 2018-31Aug, 2018) | * We were briefed about the paraphernalia of the industry, how the projects are taken care of and how to go about our business. * It was an extremely productive week wherein we got the gist of the components used. |
| Week 4  (1 Sept, 2018 - 7 Sept, 2018) | * We started designing and brainstorming the algorithms which were required for the project. * For this task, we divided ourselves in groups of two to bring out productivity and efficiency and to clearly identify individual contribution in the project. |
| Week 5  (8 Sept, 2018 - 14 Sept, 2018) | * The objective of the project was clearly identified and we started coding and bringing out the results. * We tried to develop the most efficient code possible for the project with suitable time and space complexity. |
| Week 6  (15 Sept, 2018 - 21 Sept, 2018) | * Once coding was over with, we started researching about the other aspects of the project like the components, and circuits. * We aimed for the least complex and most efficient circuits where if a component of the circuit fails it can be easily replaced. * We also looked for the best quality components for the durability and sustainability of the project |
| Week 7  (22 Sept, 2018 - 28 Sept, 2018) | * Once both the hardware and the software components were ready, we started testing out both of them embedded together. * It was a peculiar task hence we had to be extra careful about the proper synchronization of the software and the hardware components for the project to work properly. |
| Week 8  (29 Sept, 2018 – 5 Oct, 2018) | * During the testing phase we encountered some major and some minor bugs in our codes. We debugged the codes to establish the desired synchronization between the software and the hardware components * We were successful in syncing both by getting rid of the minor bugs in the end. * We were successful in making the desired project on Home Automation. |
| Week 9  (6 Oct, 2018 - 12 Oct, 2018) | * We knew that we are amateurs in the field hence there is scope for improvement in our project. Keeping this in mind we looked for further improvements and acknowledged it in the documentation |
| Week 10  (28 Oct, 2018 - 4 Nov, 2018) | * Final documentation and presentation was the last job left in the project but as they say first and last impression matters the most, we never wanted to leave any stone unturned in giving our best efforts. * Hence we prepared the presentation and final report the best we could and tried to incorporate every aspect of the project for proper understanding of the faculty. |