Contents

[Abstract 1](#_Toc499113088)

[Intro and Theory 2](#_Toc499113089)

[Intro 2](#_Toc499113090)

[Theory 2](#_Toc499113091)

[High level Design & Software and Hardware design (Method) 2](#_Toc499113092)

[Overall Schematic 2](#_Toc499113093)

[Hardware 3](#_Toc499113094)

[Keypad 3](#_Toc499113095)

[Buzzer 3](#_Toc499113096)

[LCD 3](#_Toc499113097)

[USART1 3](#_Toc499113098)

[Main Functions 4](#_Toc499113099)

[Mess1out 4](#_Toc499113100)

[save\_data\_start352 4](#_Toc499113101)

[Compare\_basic2 4](#_Toc499113102)

[Extensions 4](#_Toc499113103)

[Results and Performance (results/ discussion) 4](#_Toc499113104)

[Technical detail 4](#_Toc499113105)

[Investigating reliability 4](#_Toc499113106)

[Updates, Modifications and improvements (e.g. errors) 5](#_Toc499113107)

[Updates 5](#_Toc499113108)

[Modifications 5](#_Toc499113109)

[Improvements 5](#_Toc499113110)

[Conclusion 5](#_Toc499113111)

[Product Specification 5](#_Toc499113112)

[References 5](#_Toc499113113)

[Appendices (Code, data etc. ) 5](#_Toc499113114)