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Description automatically generatedCairo University**

**Faculty of Graduate Studies for Statistical Research**

**Department of Computer Science**

**The Smart Battery Charger**

**A Project Presented for Fulfillment**

**For Diploma Project in Computer Science**

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* **Abstract:**

In recent decades, smart devices have played the most significant role in human’s life, and power consumption has been one of the most trending issues. As a result, batteries and their lifespan have been one of the most sophisticated topics.

We propose to design a device that automate charging process by protecting the human from headache of monitoring percentage of charging periodically.

* **Declaration:**

We here declare that the project entitled “The Smart Battery Charger” submitted for all training centers, and educational institutional, which serve the student affairs in smart and automated way.

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| No. | Name | Task | Signature |
| 1 | Mohamed Sayed Hemed | Hardware Implementation (Design Board & write low level codes) |  |
| 2 | Sherif Mostafa Samy | Software Implementation (Design interfaces & writing code) |  |

* **Acknowledgments:**

At the beginning and at the end we all thank Allah for helping us to achieve this work and ask Allah to benefit us with what he taught us and teach us what will benefit us.

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* **Definitions, Acronyms, and abbreviations (Glossary)**

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**Chapter 1: Introduction**