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The Dark Side of Technology
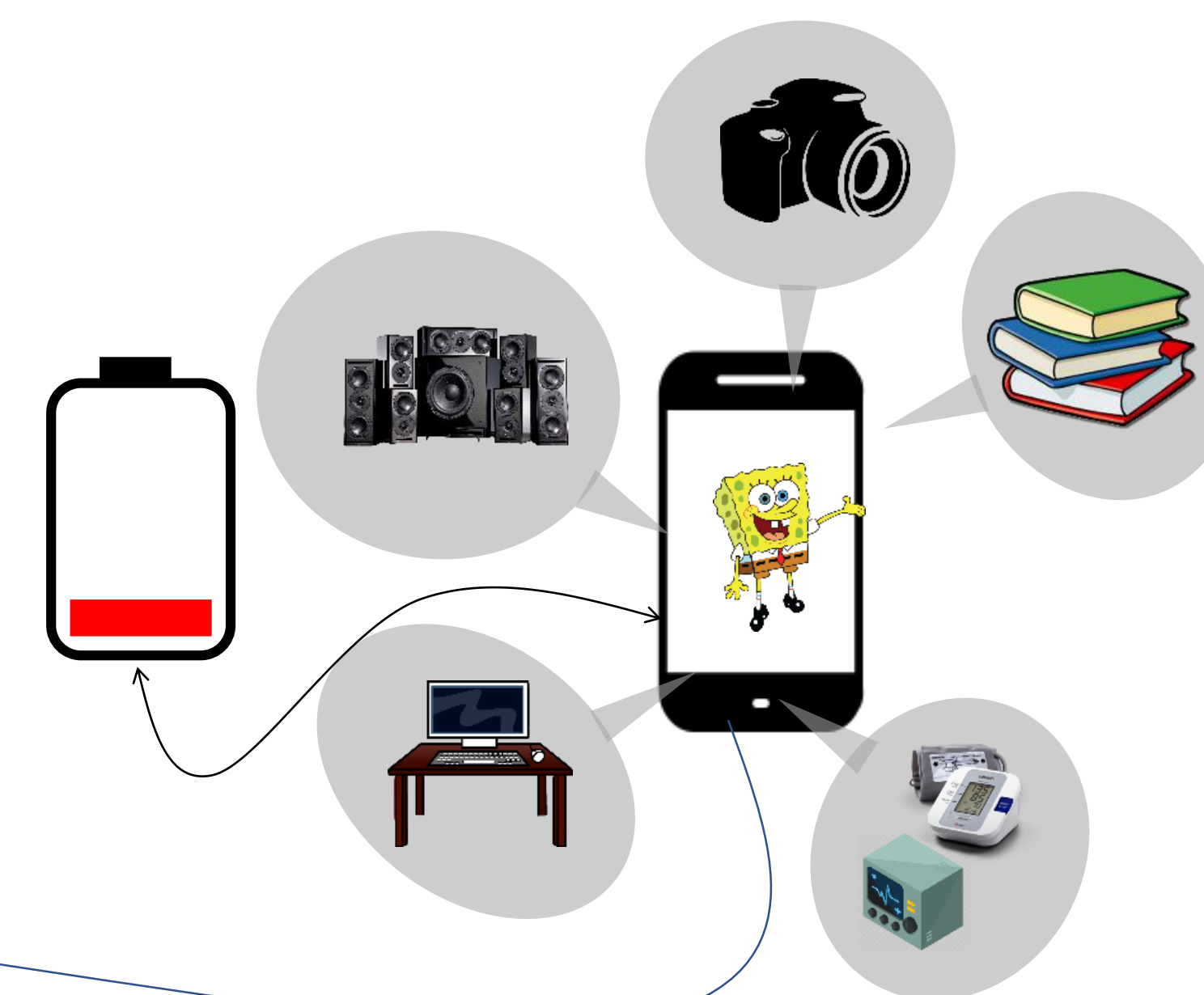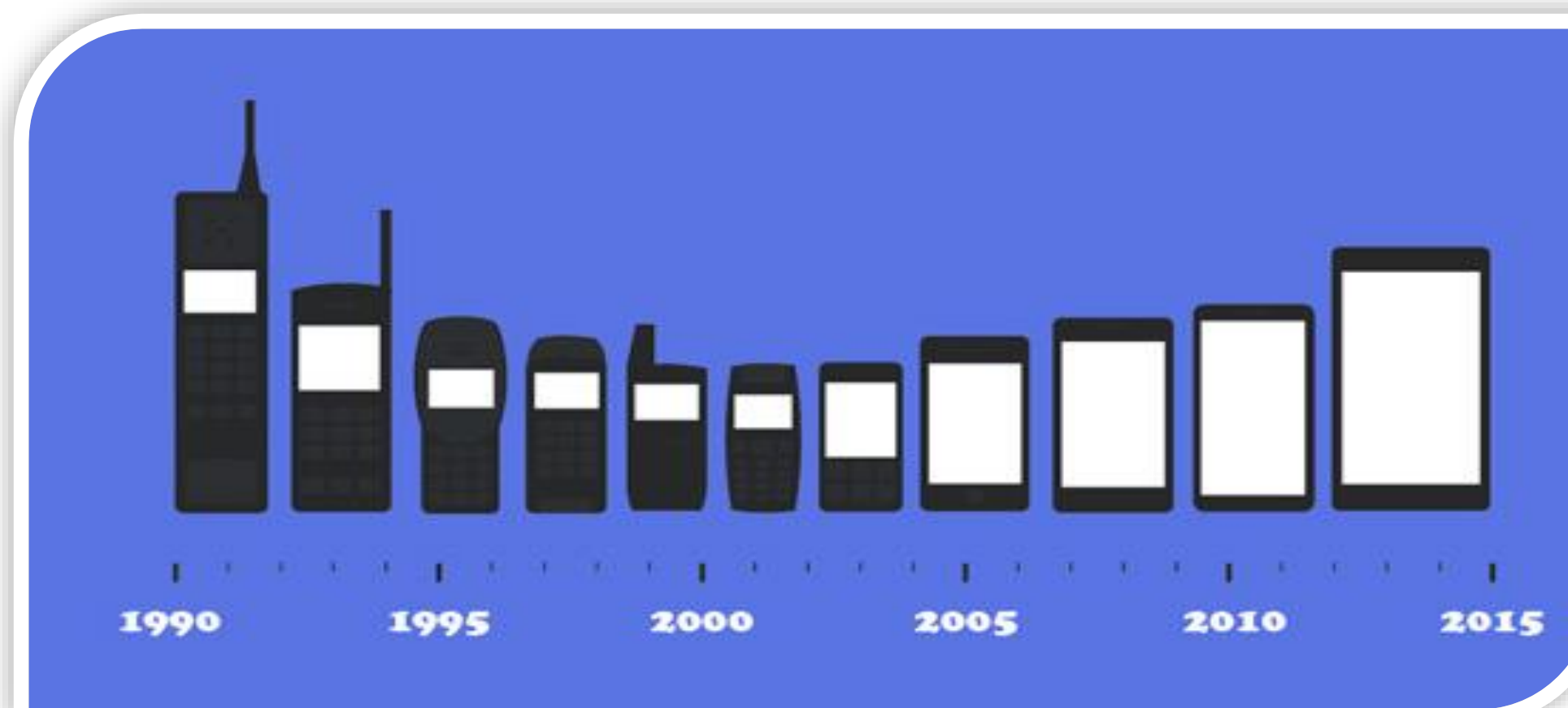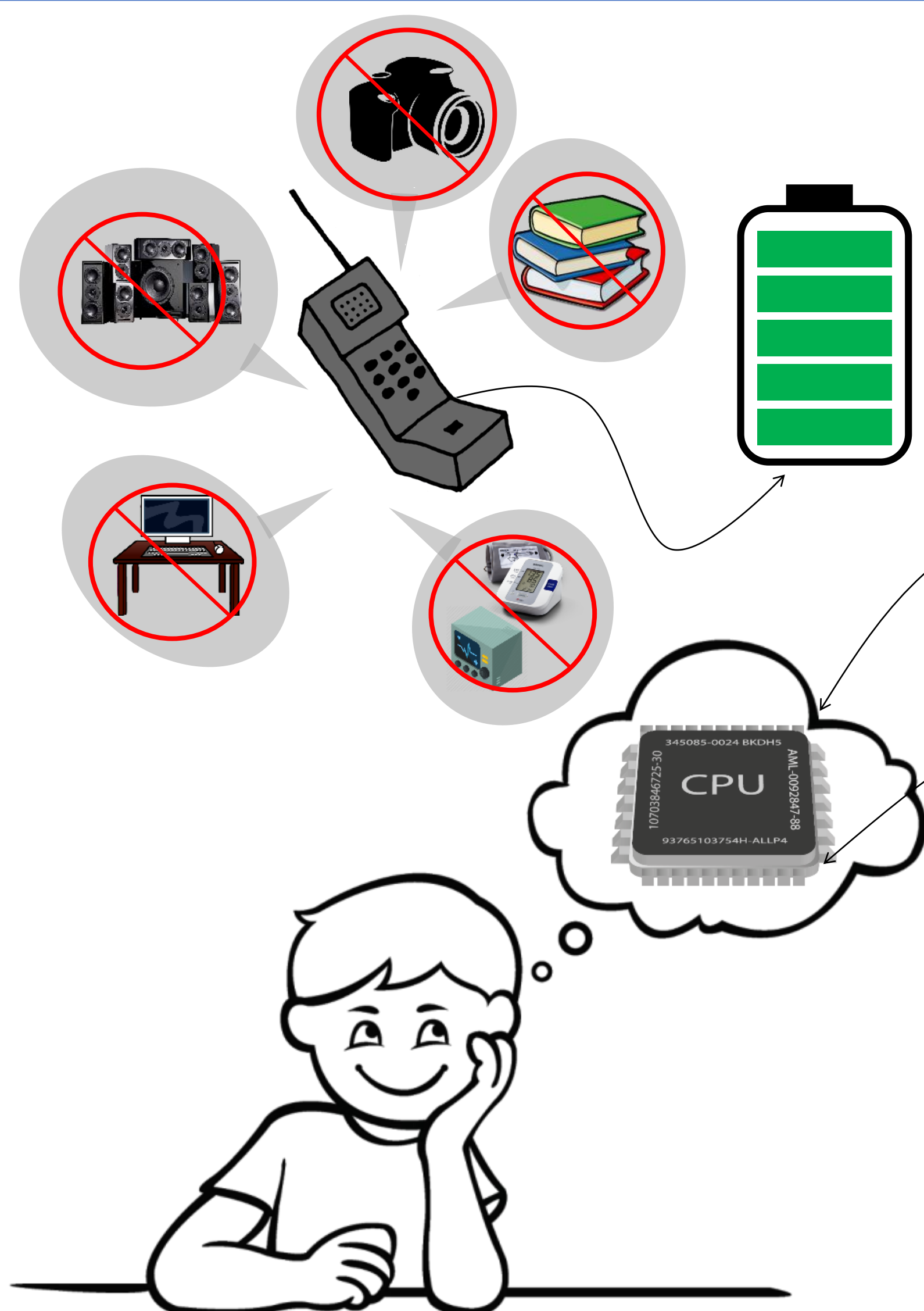
Background Information

- Advances in technology has resulted in the fabrication of smart handheld devices capable of replicating multiple features all in one device.
- Smart handheld devices enable us to take pictures, watch movies, measure temperature etc.

Problem Statement

- These handheld devices consume power and therefore, cannot be powered-on for a long time.
- Unfortunately, as more features are embedded in these devices, the more power is used.

Aims & Objectives

- Evaluate and compare existing chip design techniques.
- Design an efficient algorithm for reducing power whilst maintaining the performance.

Conclusion

- With the increasing computational power of computing chips, power consumption and its associated heating issues become a problem.
- Design and implement an efficient algorithm that reduces power without affecting performance.