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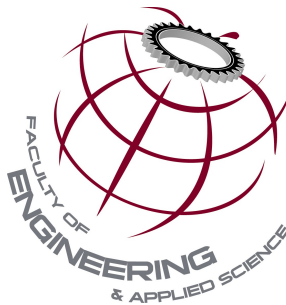
FACULTY OF ENGINEERING AND APPLIED SCIENCE

ENGI 6861 - PROJECT (DRAFT)

Computer Architecture of Wearable Technology

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Executive Summary

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1 Introduction

Wearables as defined by Technopedia are technologies that are worn on the body that contain various sensors that can record health and fitness information, or take movement input data in real-time [1]. The market for this technology has expanded rapidly in recent years, with the wearable market being worth \$19 billion in 2015, and expected to expand to \$57 billion by 2022 [2]. This growth rate can be attributed to the fact that it is a novel technology just getting past the early adoption phase, but this technology is also improving at an impressive pace each year. The 2010s have seen advances in lower-powered processors with a smaller footprint that allow wearable devices to become much more powerful. With improvements in small, powerful processors, it allows wearables to have more functionality, and focus less on designing the wearable around the electronics inside [3].

2 Smartwatches

3 Virtual Reality

References

- [1] Technopedia, “Wearable device.” <https://www.techopedia.com/definition/31206/wearable-device>.
- [2] K. Mamtani, “Wearable technology market by device global opportunity analysis and industry forecast, 2014-2022,” April 2017.
- [3] L. Avila and M. Bailey, “The wearable revolution,” *IEEE Computer Graphics and Applications*, vol. 35, Mar.-Apr. 2015.