



University of Extremadura

Faculty of Science

Physics degree

Degree Final Project

**About implementation of LoRa-based wireless
monitoring systems for tree species
dendrometry.**

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1 Abstract

This document gives a detailed description of this project, which is focused on researching possible low-cost alternatives for wireless dendrometry systems. Currently there exist a lot of expensive and professional systems in the market, that's because this project is intended to reduce costs and increase the versatility, scalability and accessibility.

In order to reach these objectives the project will be supported over free software such as FIWARE[1] or free hardware such as Arduino[2] and RaspberryPi[3].

References

- [1] e. FIWARE Foundation. (2020). Fiware home,
[Online]. Available: <https://www.fiware.org/> (visited on 05/2020).
- [2] A. company. (2020). Arduino,
[Online]. Available: <https://www.arduino.cc/> (visited on 05/2020).
- [3] R. P. Foundation. (2020). Raspberry pi,
[Online]. Available: <https://www.raspberrypi.org/> (visited on 05/2020).