

ABSTRACT

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Desain Bluetooth Energy Low Beacon (BLE) Berbasis ESP32 untuk Menyebarkan Informasi Mengenai Universitas Gunadarma

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Keyword : ESP32,Beacon BLE, Bluetooth, Aplikasi pendeteksi Beacon,Beacon Analyzer App.

(XII + 38 + Appendices)

The development of information technology at this time can no longer be dammed again moving forward faster and more sophisticated, marked by the many innovations in communication tools and the ease of everyone in obtaining information. There is a new technology that was released in 2013, namely Beacon wireless devices that can spread information links via Bluetooth Low Energy. This makes the writer aware to design an ESP32-based Beacon for Information Dissemination about Gunadarma University. The work of this tool is that ESP32 which has been set to Beacon will send the Link information that has been inputted through the Arduino IDE until the Smartphone is received properly via Bluetooth media. In testing this tool requires a supporting application that is the Physical Web application that functions to obtain the information link that is distributed and the Beacon Analyzer application that is useful for measuring the signal strength emitted by Beacon ESP32. The tool that was designed was able to spread Link via Bluetooth properly.

Bibliography (2016 – 2019)