

## **Annotation**

The aim of this project is to establish a mesh network with IoT devices from Particle and make some research on those devices and on a mesh network. The mesh network is created between Argon and Xenon devices. And in the research, the connection range of mesh network, its speed of data transfer and the energy consumption of devices are measured.

In the section of life safety, safety grounding and artificial lighting are calculated. The economic efficiency of the diploma project is also calculated.