

## SUMMARY

A diploma project contains: pages - 78, figures - 47, tables - 3 and graphic part on 3 letters of A1.

In the diploma project a design of a smart home with the use of the ESP8266 microcontroller was performed, the simulation of the lifting and the shutter release of the garage using the stepper motor NEMA17, the door or window opening sensors, the RC522 RFID module, the simulation of the signaling, the fan control, the dynamics, the SG90 servo drive, the LED ribbon WS18B20, Arduino Nano, temperature sensor, heating element, control of the mechanisms via the Internet via WIFI via phone.

MICROCONTROLLER, SERVO, DESIGN, CONCEPTIVE HOUSE, PROGRAMMING, ESP8266 AUTOMATION, MAKE, SYNTHESIS, ARDUINO, MOUNTING BOARD, RFID.

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|           | Letter        | № of doc. | Sign. | Date |  |  |      |       |
| Devel.    | M. Poznanskyi |           |       |      | <i>"Development of the controller of the system of automation of the layout of a smart home"</i><br><i>Summary</i> | L.   | Page | Pages |
| Checked   | Y Zaichenko   |           |       |      |  | 7  | 78   |       |
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