

Bi-directional wireless energy transmission with NFC communication

Project work

Motivation

- Device for medical use
- Powering of an encapsulated device for electrostimulation via inductive energy transmission

Tasks

- Development of a Qi-compatible bi-directional receiver-transmitter module
- Implementation of a NFC communication between receiver-transmitter module and receiver module
- Design of NFC coil and matching filter
- Microcontroller programming
- Dimensioning of component parts

Requirements

- Knowledge in Microcontroller Programming (ESP-32, I2C, etc.)
- Knowledge in Hardware Design (Circuit design, PCB design)

Contact

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