



Hardware Development

PFE Topic 9

Development of a wireless charging demonstrator

Description

Wireless charging has been increasingly gaining traction in the market and is expected to continue to heavily influence our daily lives.

The purpose of this project is to develop, design and validate a Qi-based wireless charging device according to the WPC Qi-v1.3 specification.

Skills

Altium Designer, LTSpice, Analog/Digital Electronic, Power Electronic, IOT, Embedded-C is preferred.

PFE Topic 10

Development and design of a precise GPS/GNSS device

Description

For many years, classical GNSS/GPS navigation systems were prone to errors of a few meters. This can be overcome through modern precise GPS/GNSS systems.

The purpose of this project is to develop, design and validate a precise GPS/GNSS device with accuracies down to few centimeters.

Skills

Altium Designer, LTSpice, Analog/Digital Electronic, Power Electronic, IOT, Embedded-C is preferred.

