

Background

The pH was first introduced in the early 1900s to scale acidity and alkalinity of different substances. Since then, measuring pH accurately and conveniently is vital for various fields, including medical diagnostics, pollution detection, and more. While the idea of digitally measuring pH is flourishing, not many of them have focused on automatic measurements, long-period continuous measurements, and cloud-based measurements.

Goal

To build a device that simplifies the process from acquiring pH electrical signal to finalize the results by utilizing WPT (Wireless Power Transfer) technology. This grants users the accessibility to multiple data records through only one personal device anytime anywhere (internet required).

Wireless pH Sensor

Team members: Zhenghan Xu (EE), Hongyi Li (CpE), Shengyu Yang (CSE), Chunhei Poon(CSE) Professor: Hung Cao

Department of Electrical Engineering and Computer Science

